

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

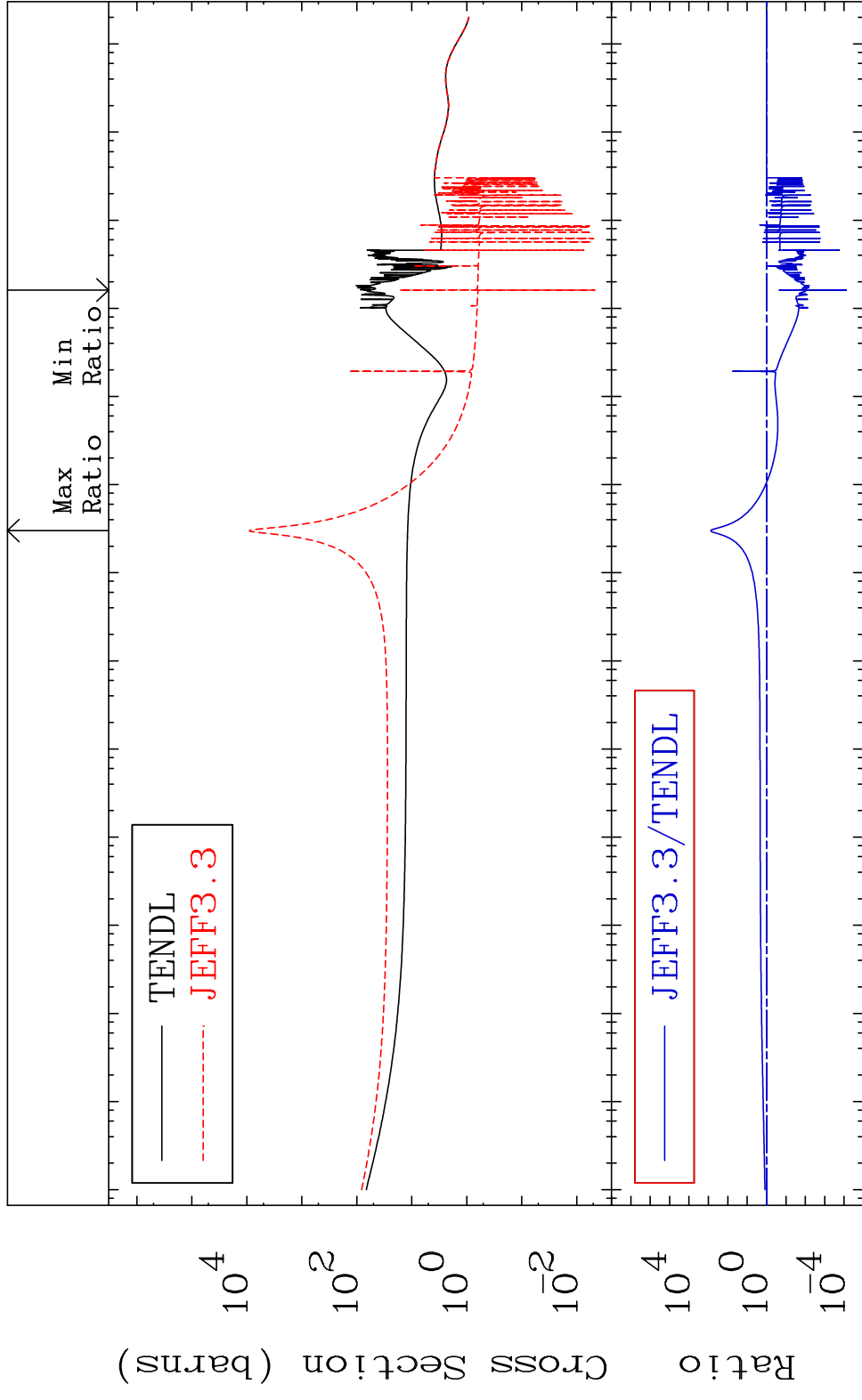
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

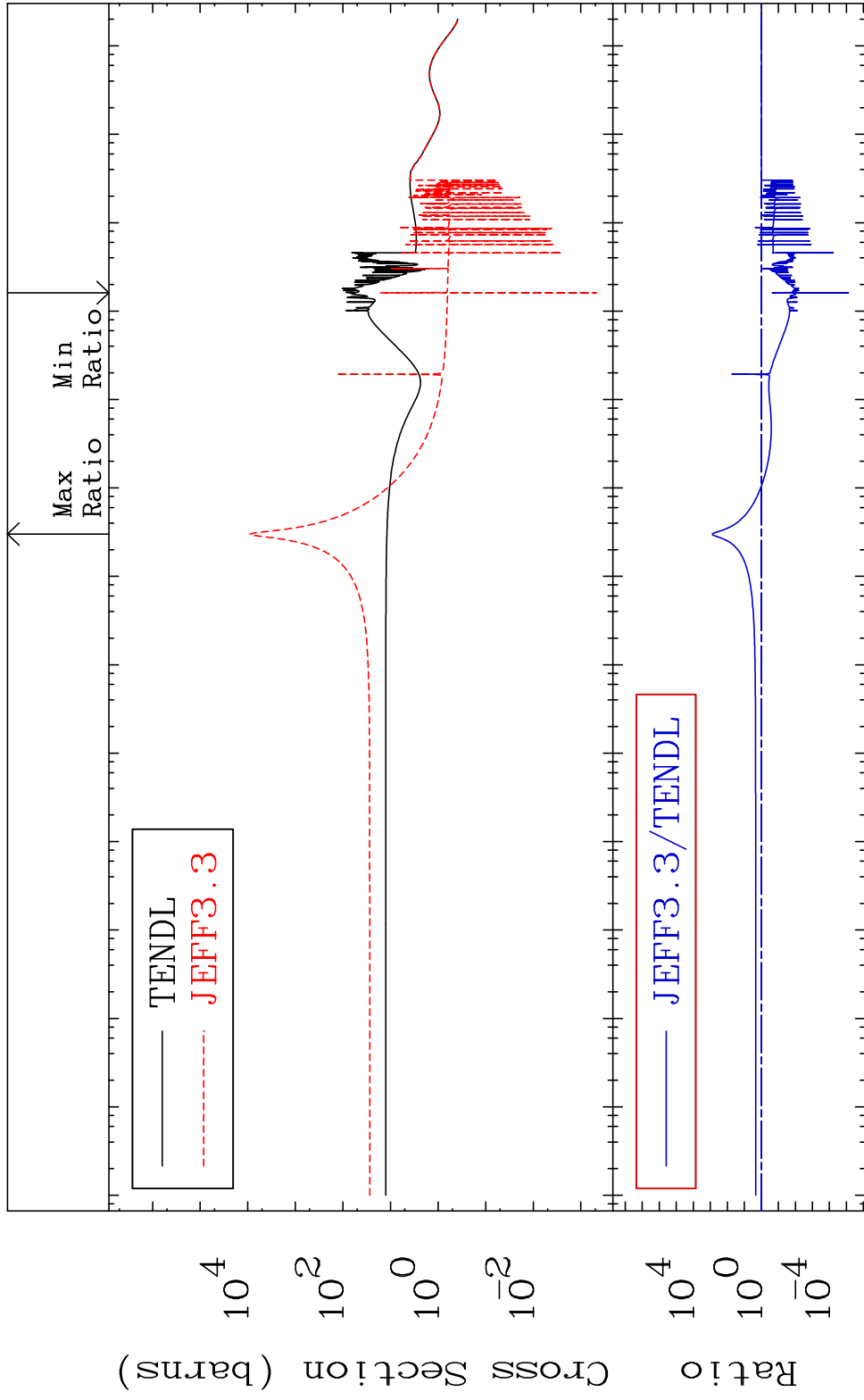
Press Mouse Button to Start

MAT 2049 Total Cross Section 20-Ca-48
 -99.99 To 9999. %



1 Incident Energy (eV) 20-Ca-48

MAT 2049 Elastic 20-Ca-48
 Cross Section -100.0 To 9999. %



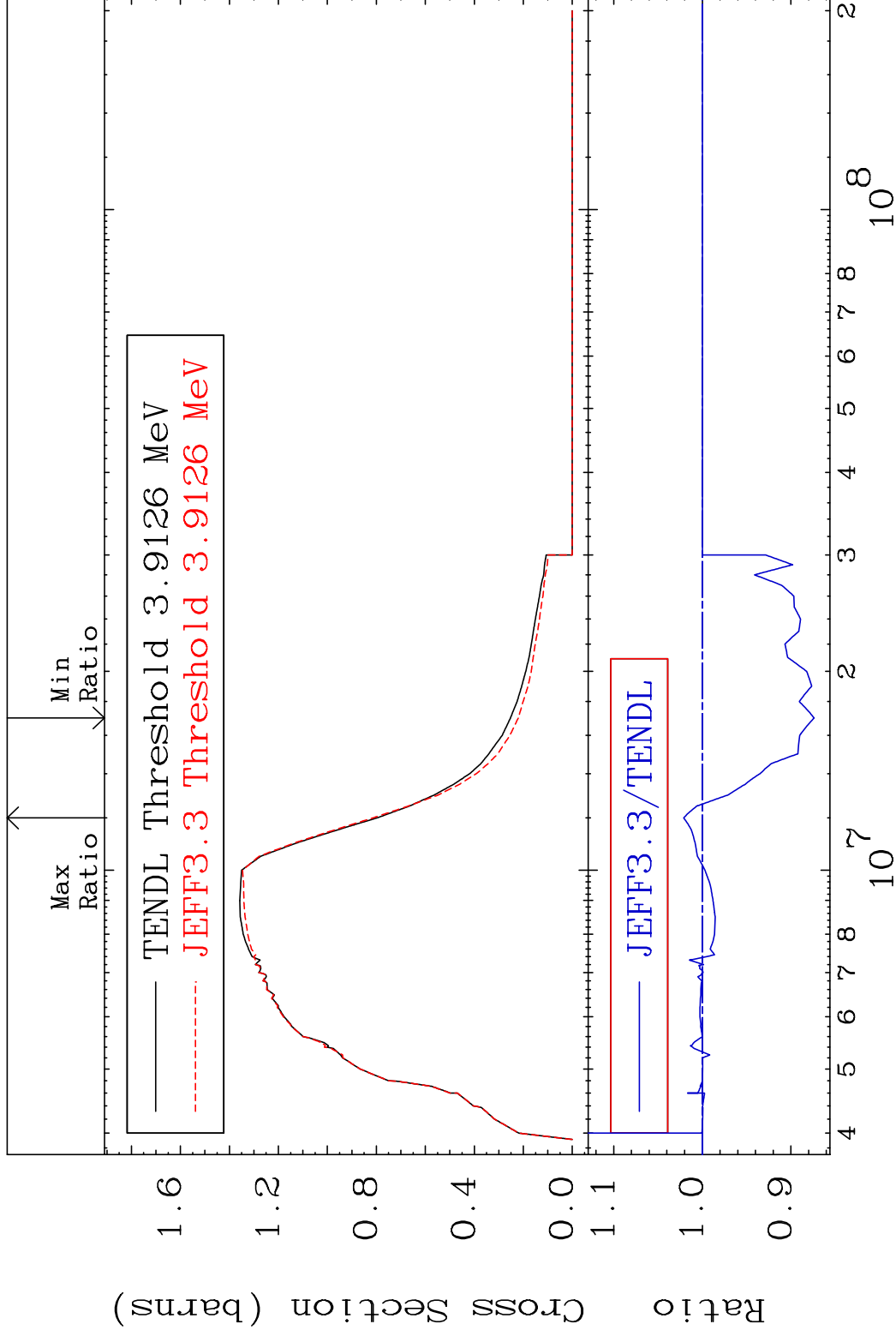
2 Incident Energy (eV) 20-Ca-48

MAT 2049

Inelastic

20-Ca-48

Cross Section -12.62 To 2.106 %

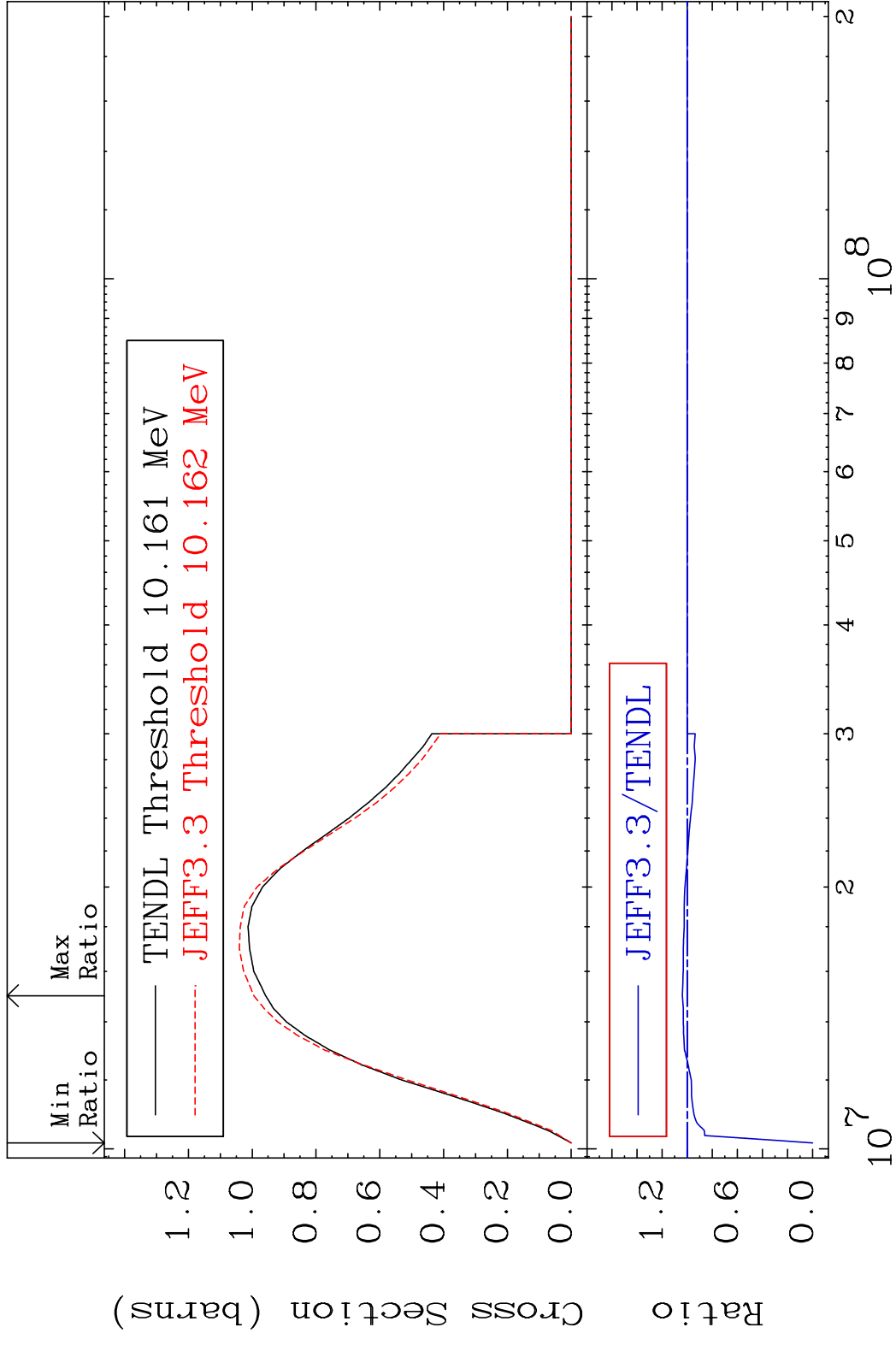


3

Incident Energy (eV)

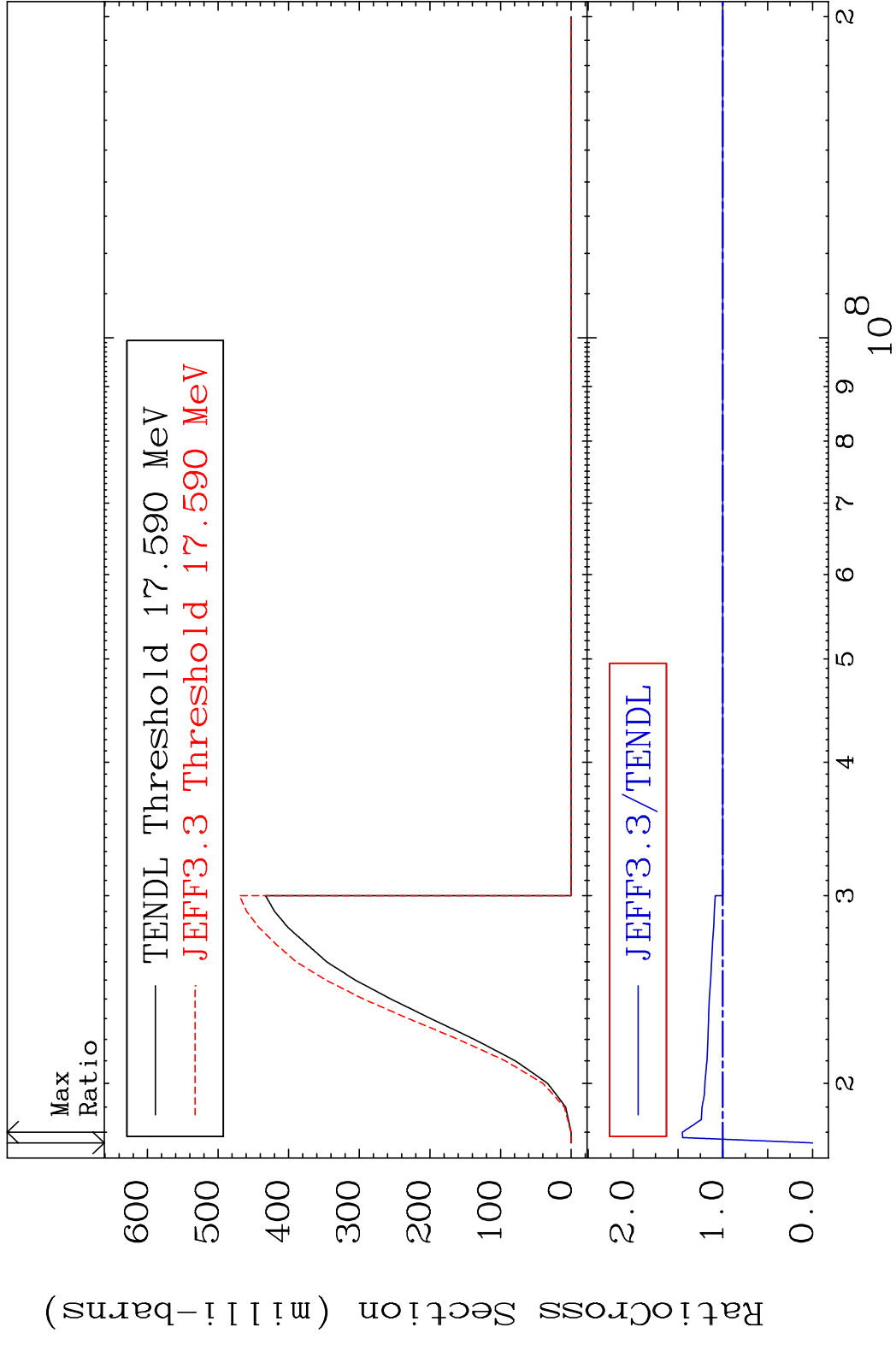
20-Ca-48

MAT 2049 (n,2n) 20-Ca-48
 Cross Section -100.0 To 3.867 %

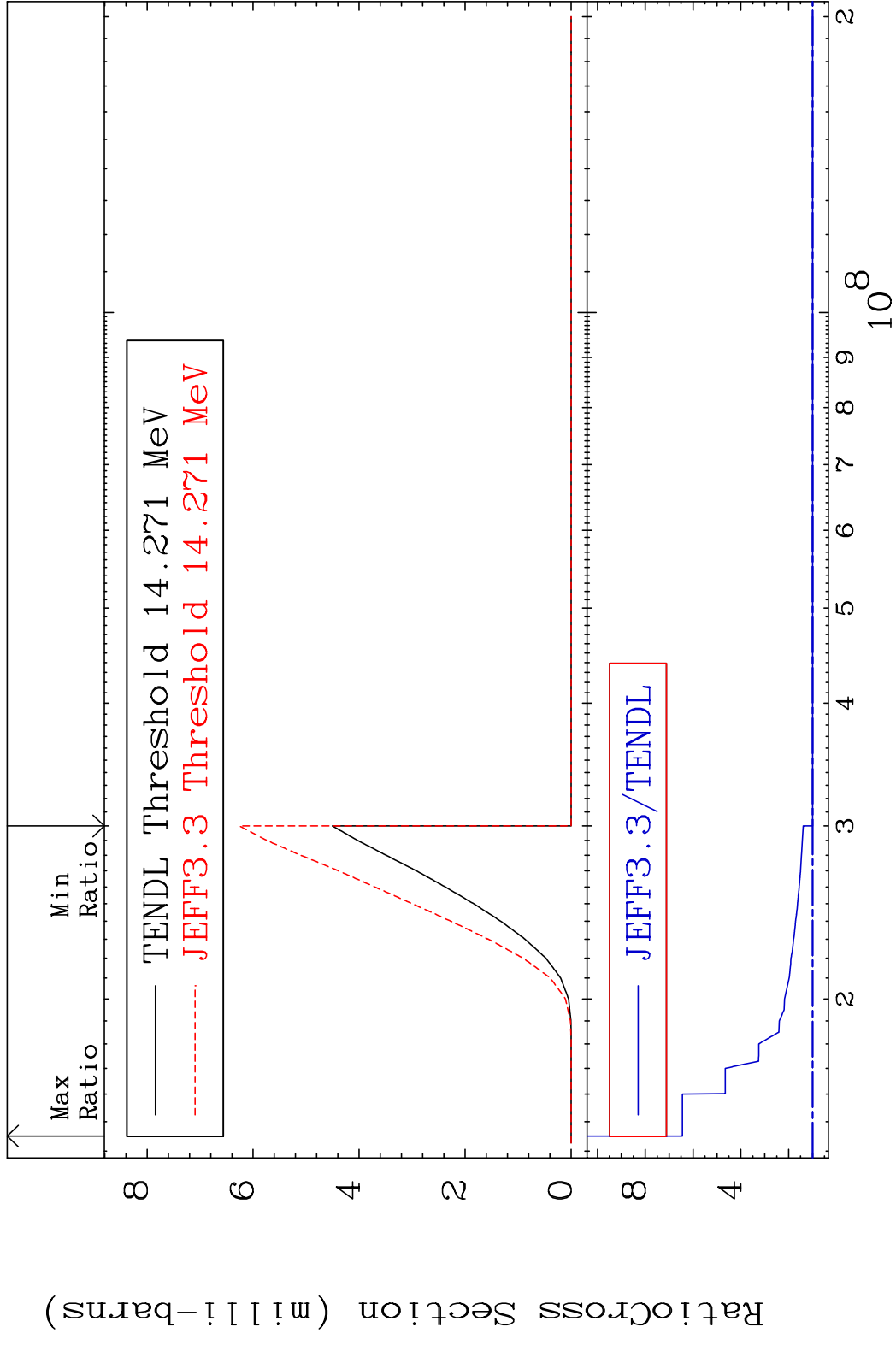


4 Incident Energy (eV) 20-Ca-48

MAT 2049 (n,3n) 20-Ca-48
 Cross Section -100.0 To 45.12 %

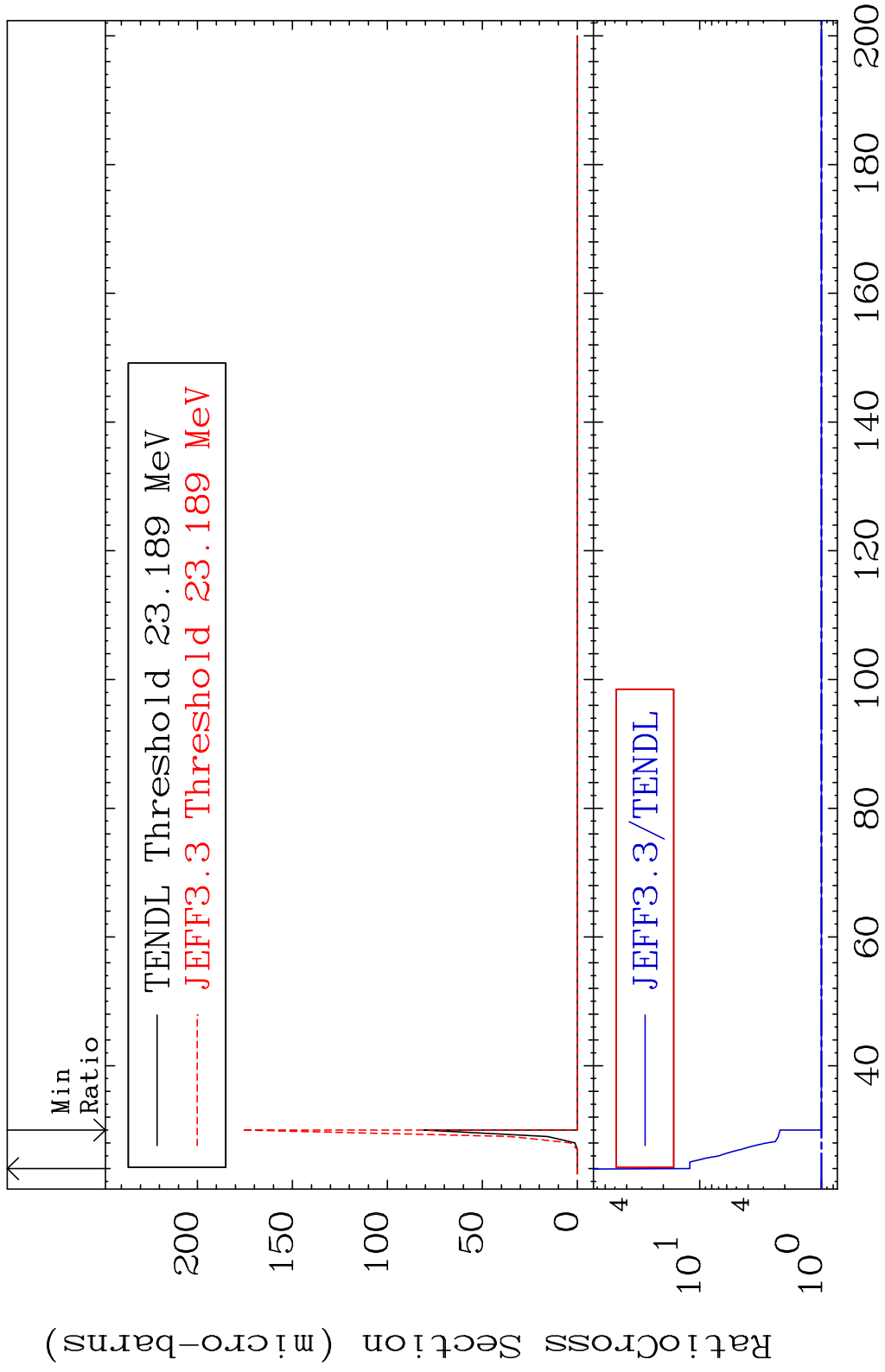


MAT 2049 $(n, n') \alpha$ 20-Ca-48
 Cross Section 0.000 To 544.8 %



6 Incident Energy (eV) 20-Ca-48

MAT 2049 (n,2n) α 20-Ca-48
 Cross Section 0.000 To 1110. %

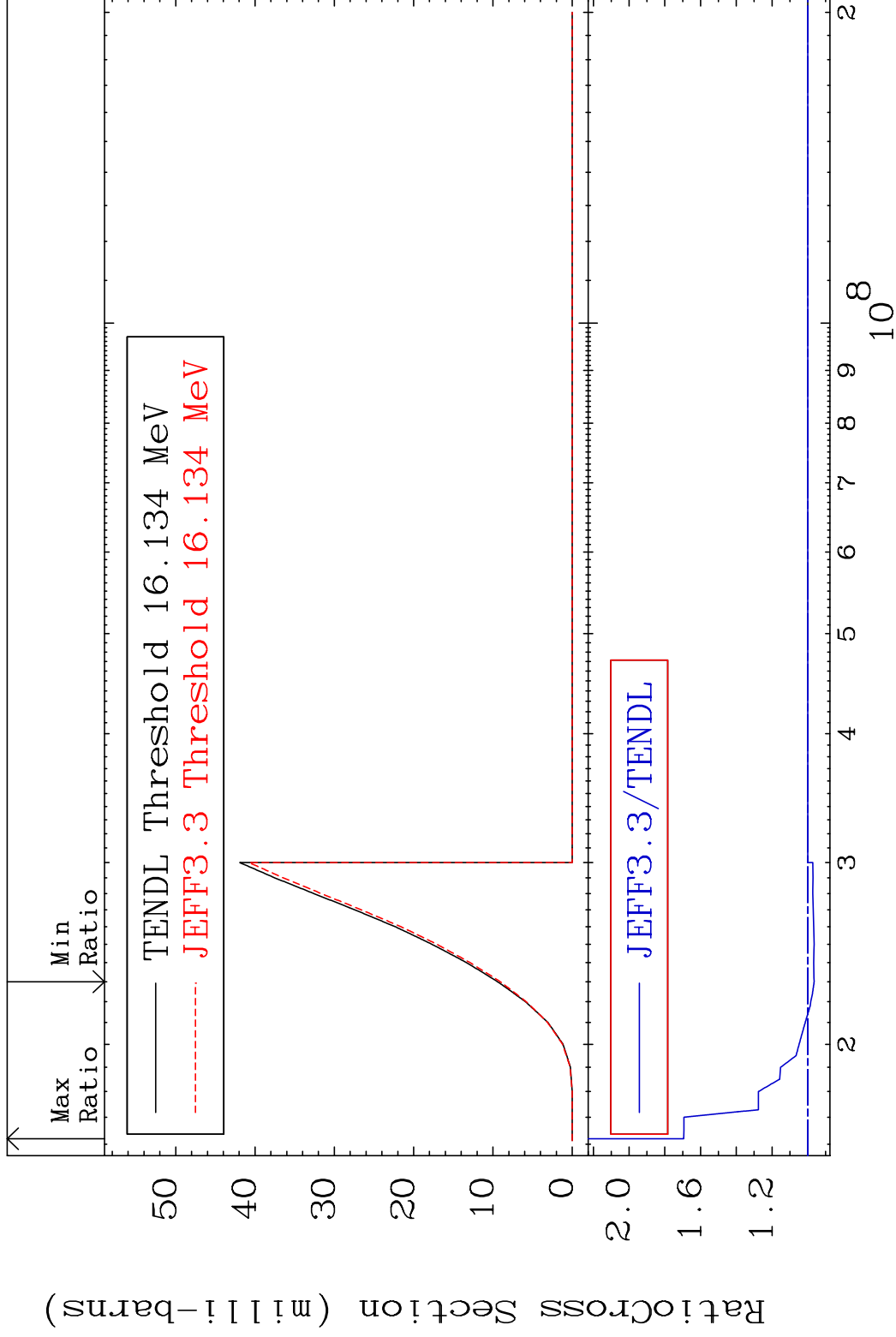


MAT 2049

(n, n') p

20-Ca-48

Cross Section -3.552 To 69.46 %

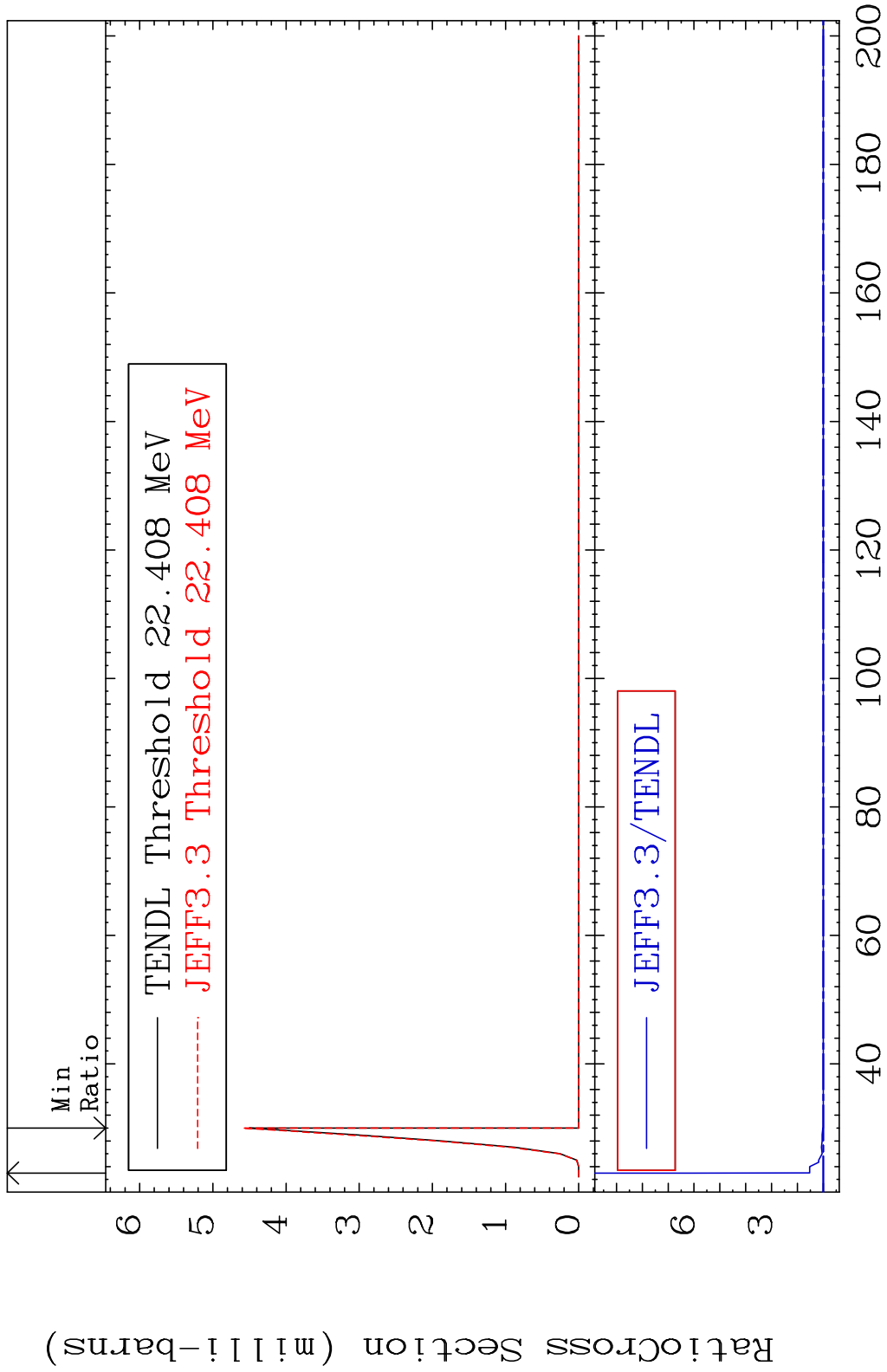


8

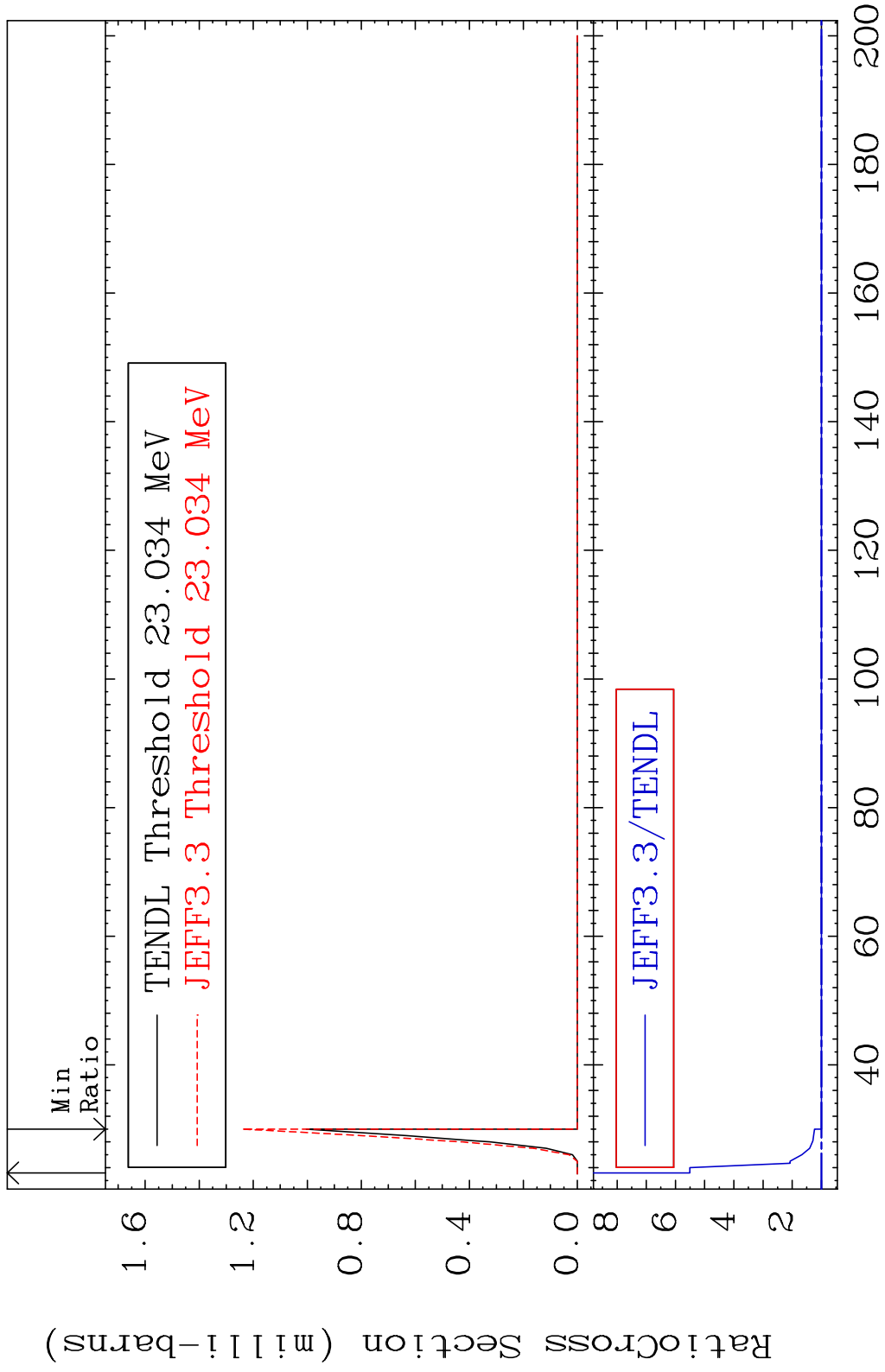
Incident Energy (eV)

20-Ca-48

MAT 2049 (n, n') d 20-Ca-48
 Cross Section 0.000 To 510.4 %

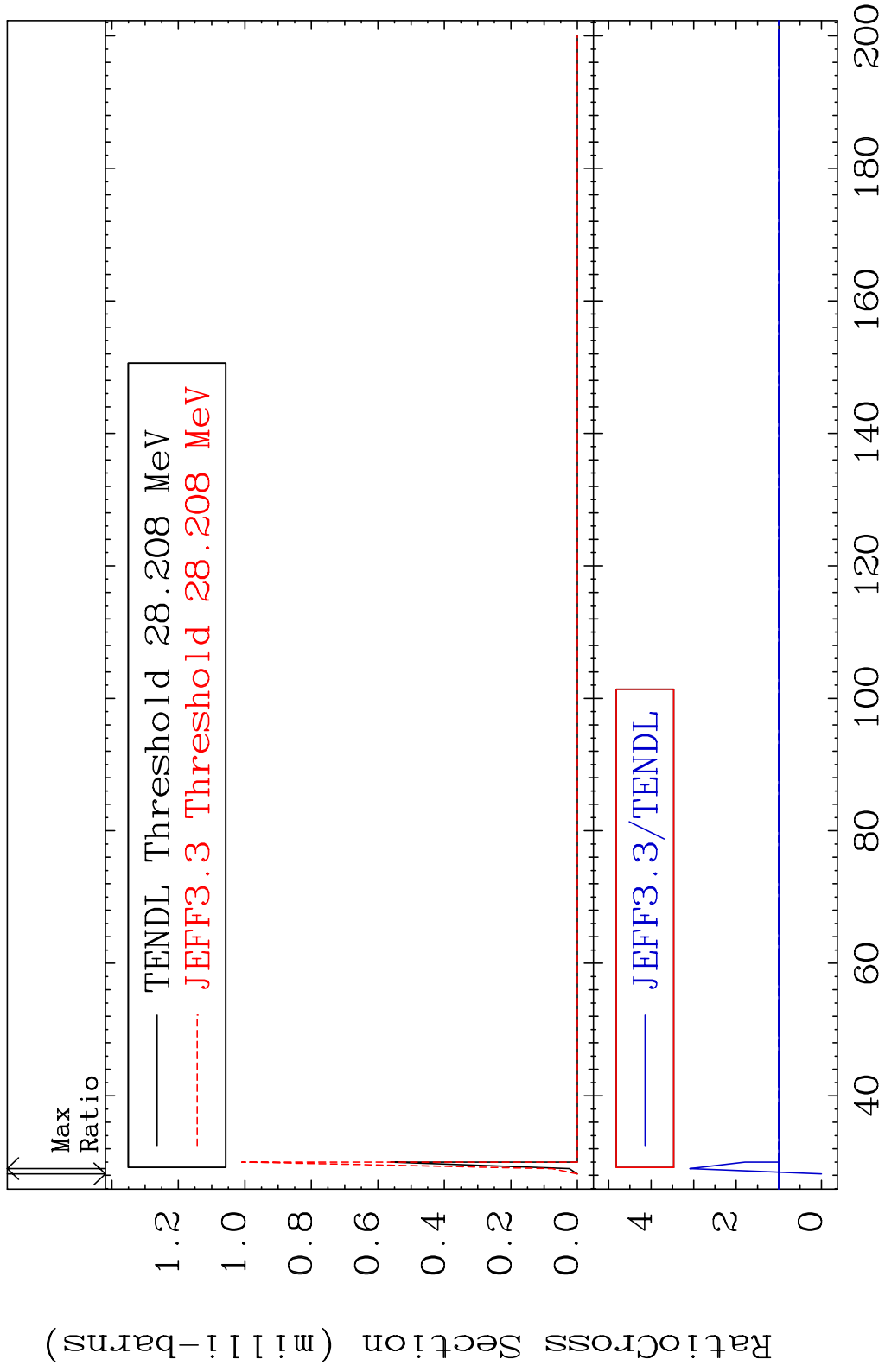


MAT 2049 (n, n') t 20-Ca-48
Cross Section 0.000 To 451.0 %

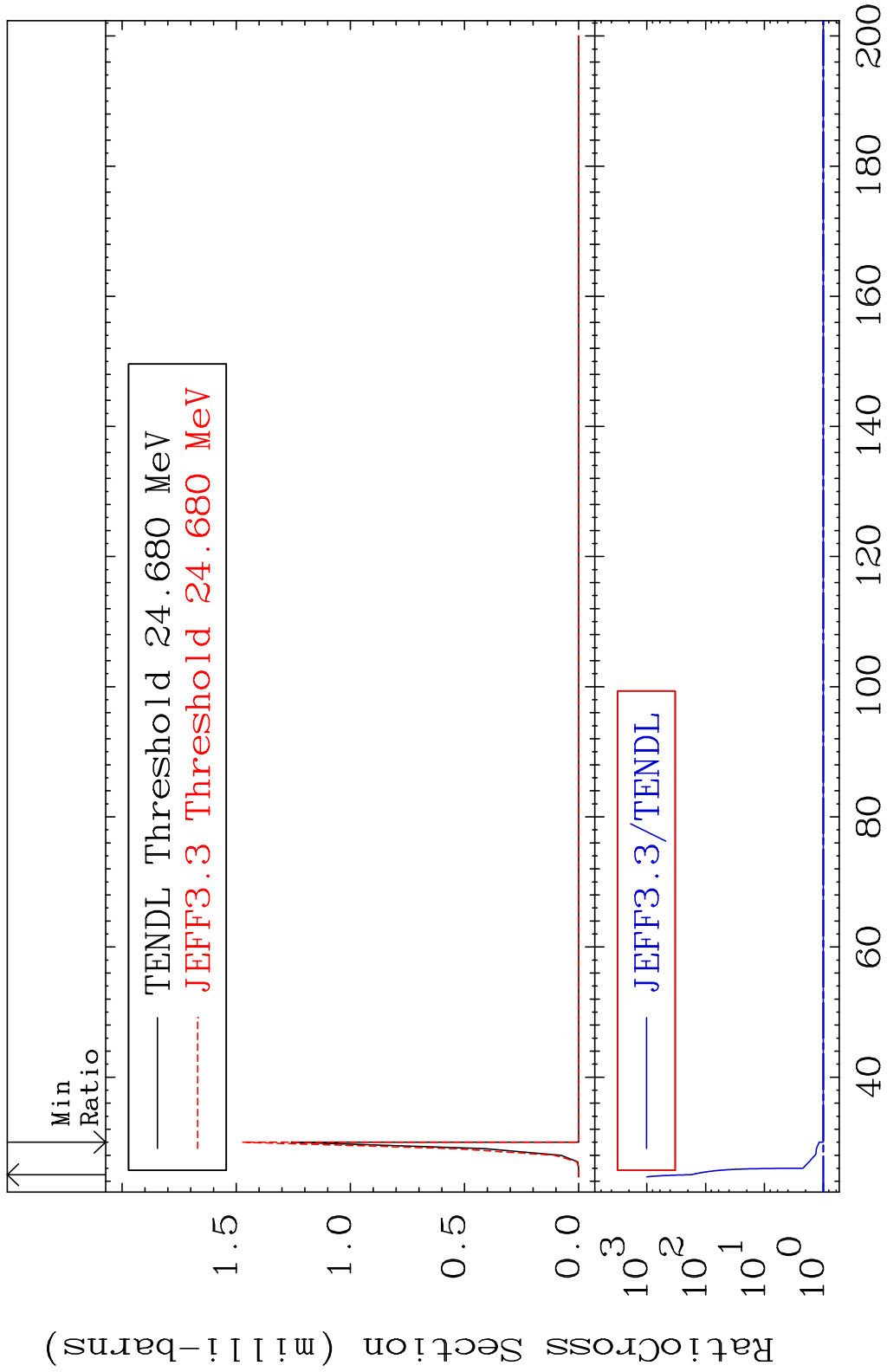


10 Incident Energy (MeV) 20-Ca-48

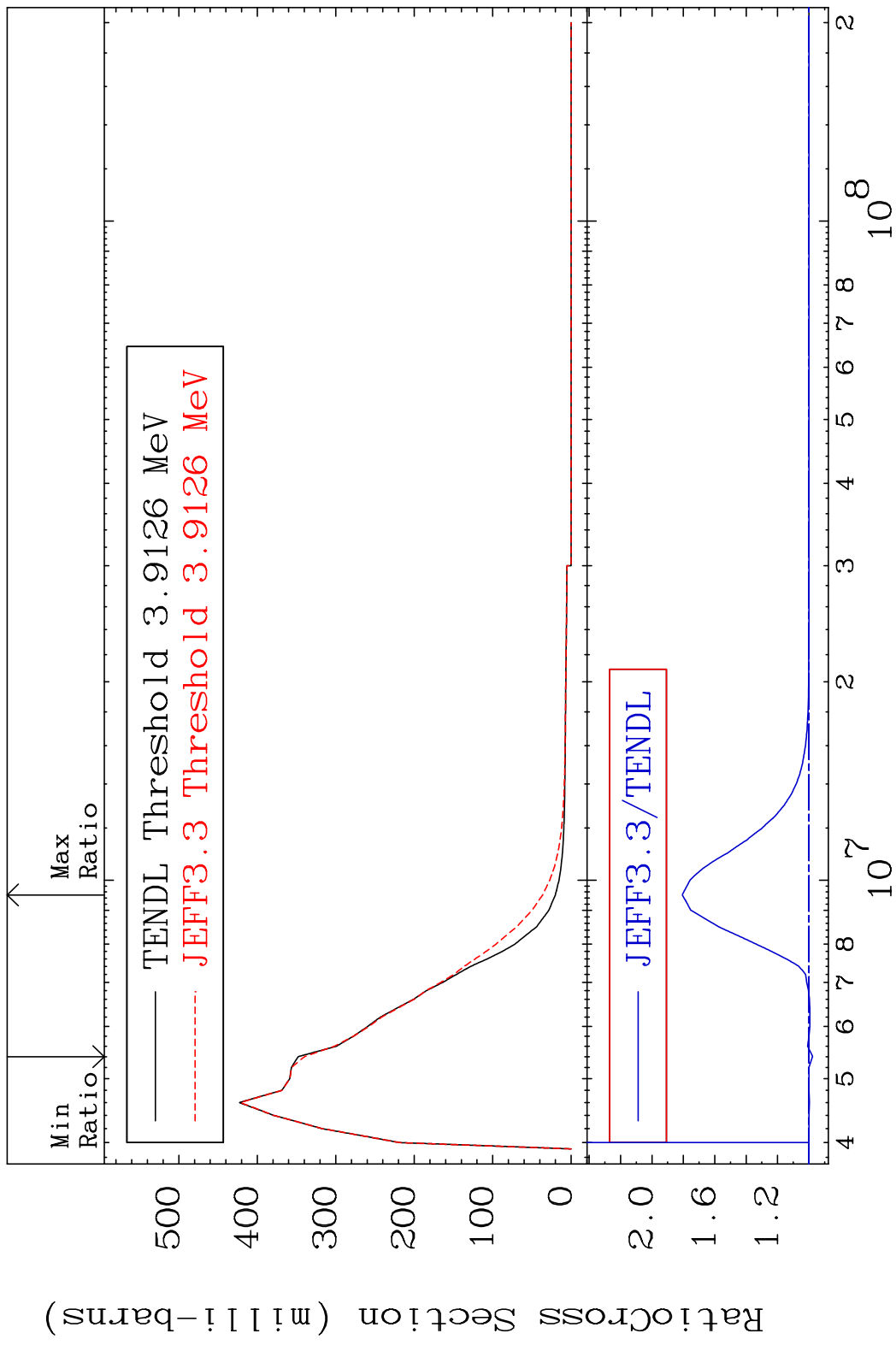
MAT 2049 (n,4n) 20-Ca-48
 Cross Section -100.0 To 209.2 %



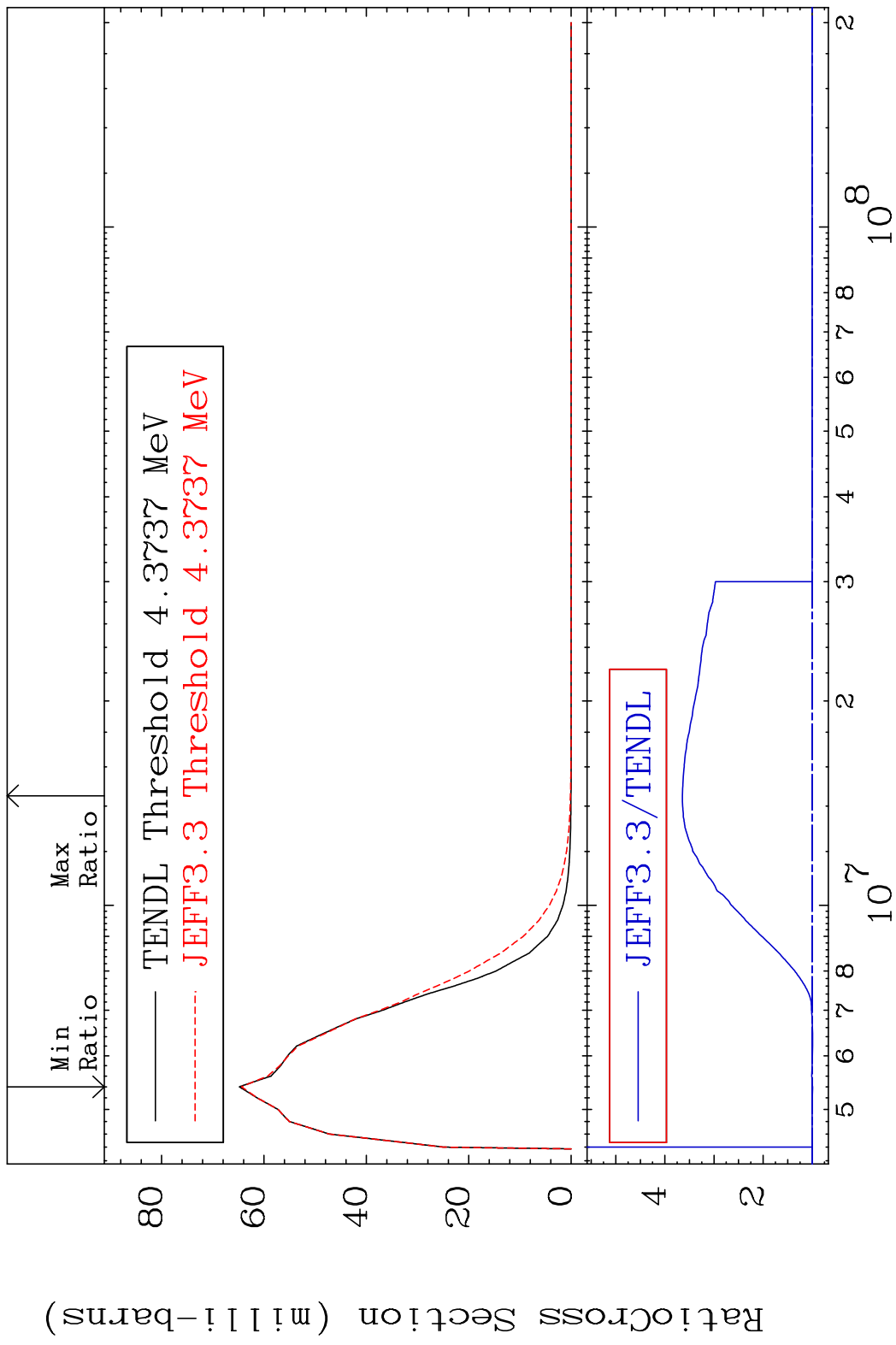
MAT 2049 (n,2n) p 20-Ca-48
 Cross Section 0.000 To 9999. %



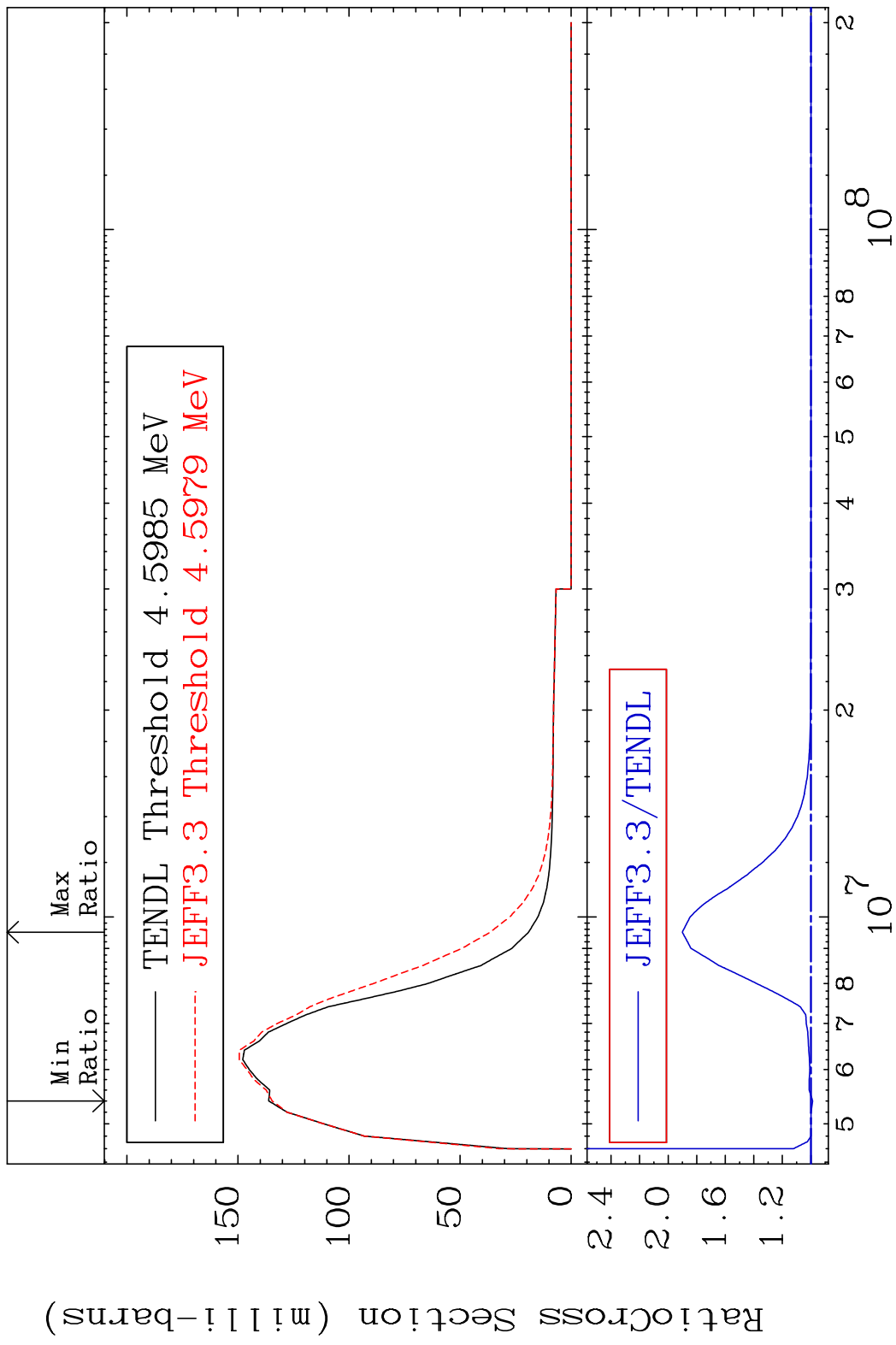
MAT 2049 MT= 51 (n, n') Level 20-Ca-48
 Cross Section -2.321 To 80.64 %



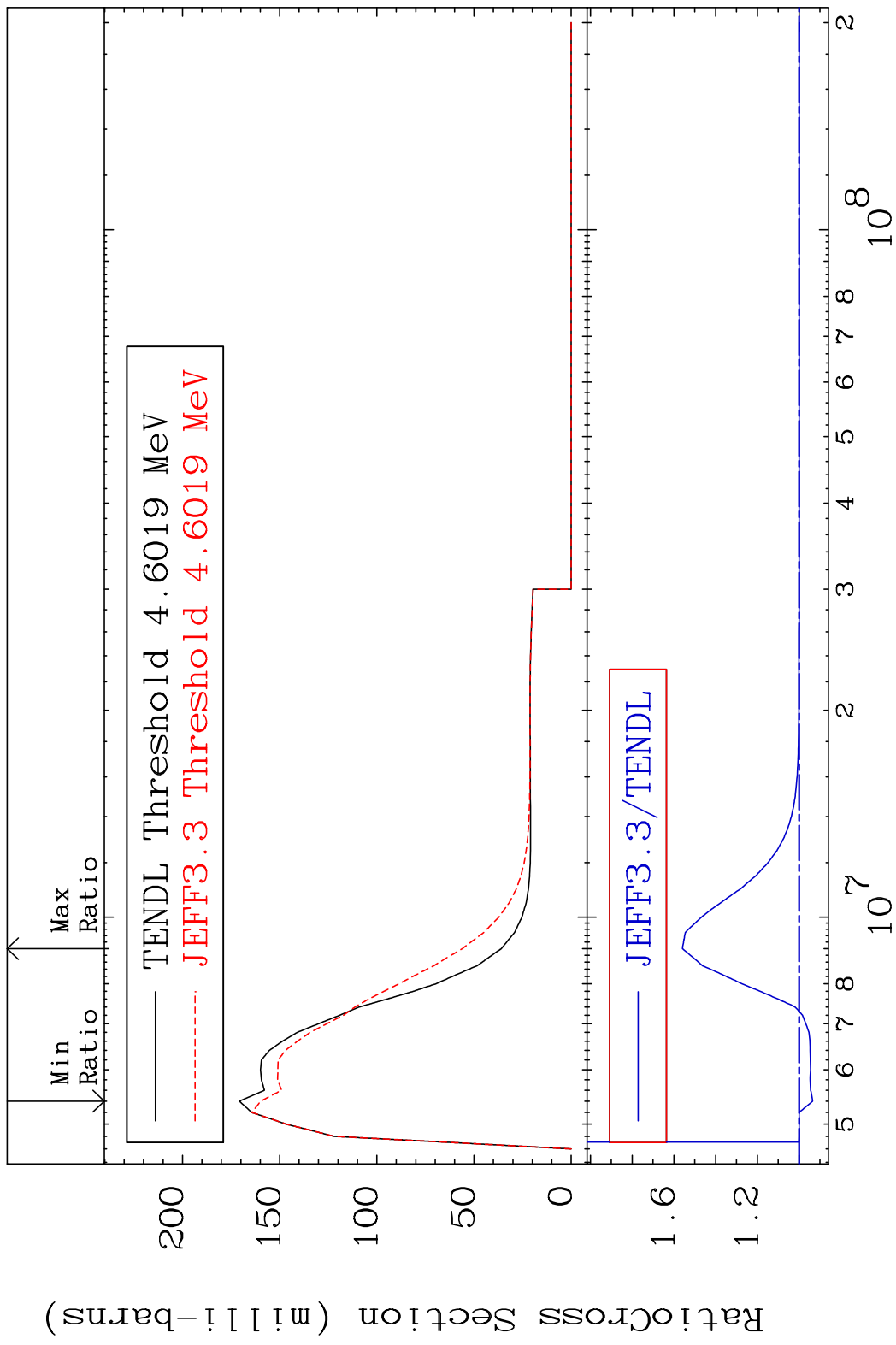
MAT 2049 MT= 52 (n, n') Level 20-Ca-48
 Cross Section -0.654 To 264.5 %



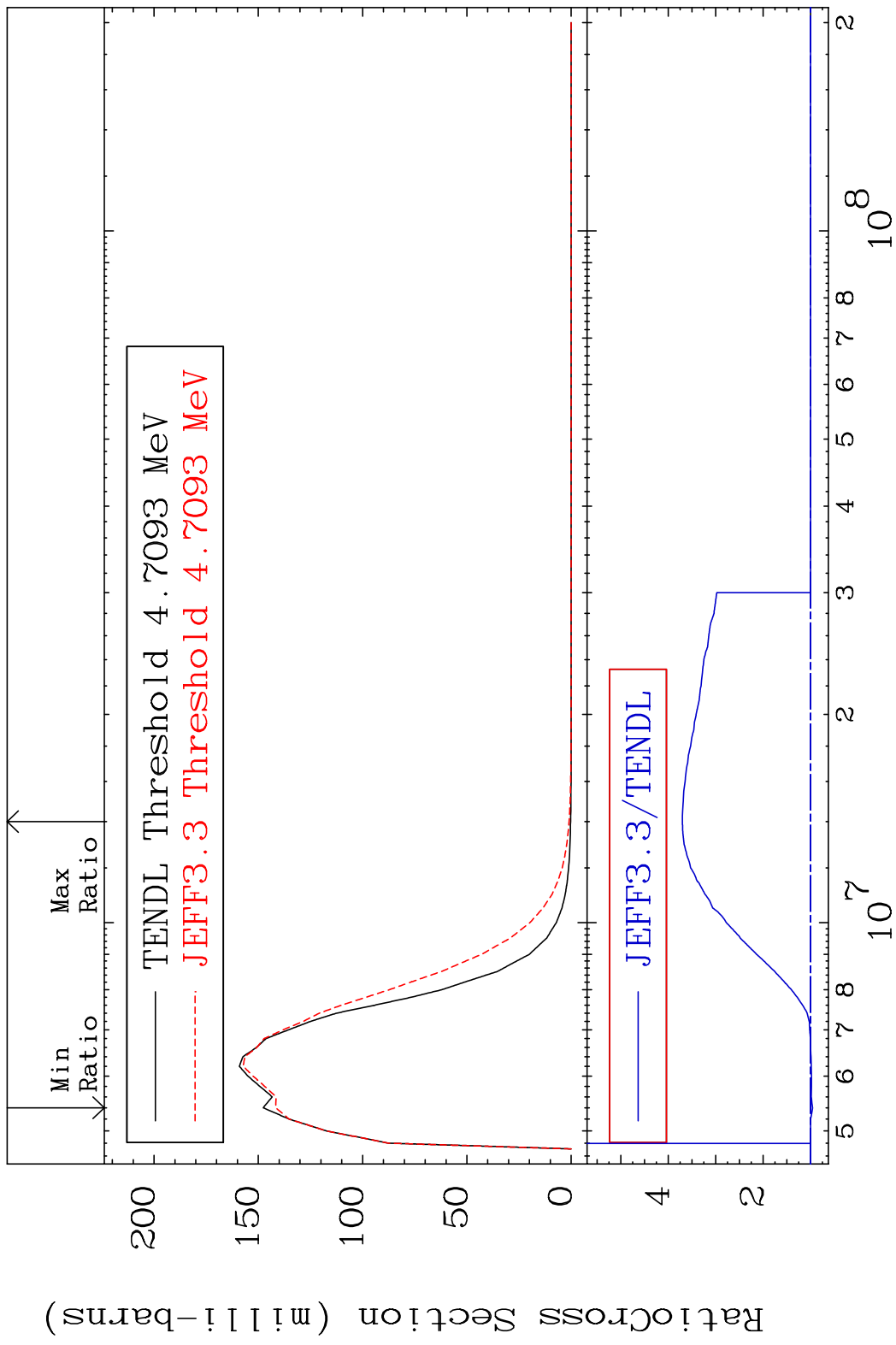
MAT 2049 MT= 53 (n, n') Level 20-Ca-48
 Cross Section -1.153 To 90.05 %



MAT 2049 MT= 54 (n, n') Level 20-Ca-48
 Cross Section -6.479 To 55.93 %

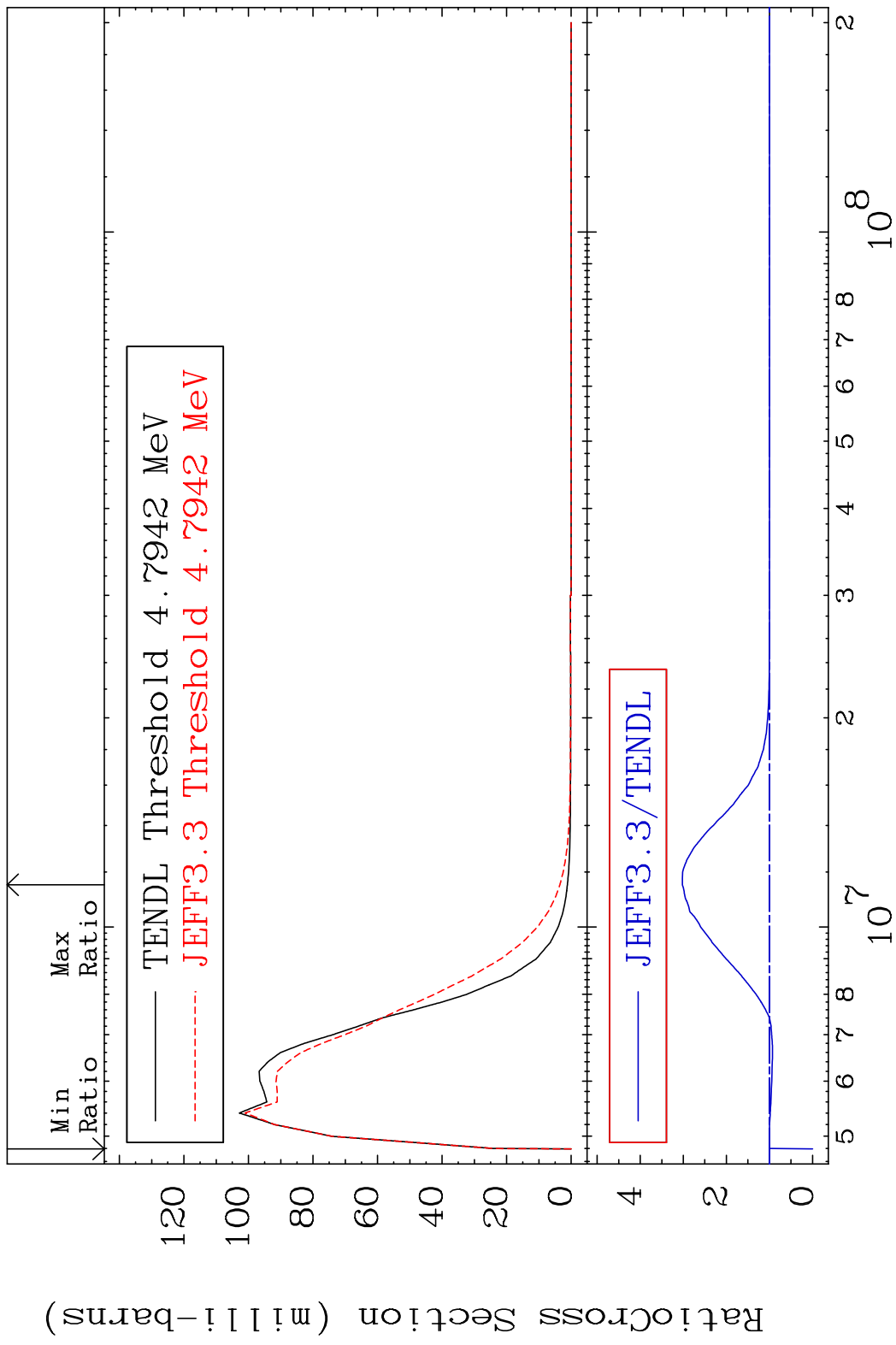


MAT 2049 MT= 55 (n,n') Level 20-Ca-48
 Cross Section -4.069 To 270.3 %

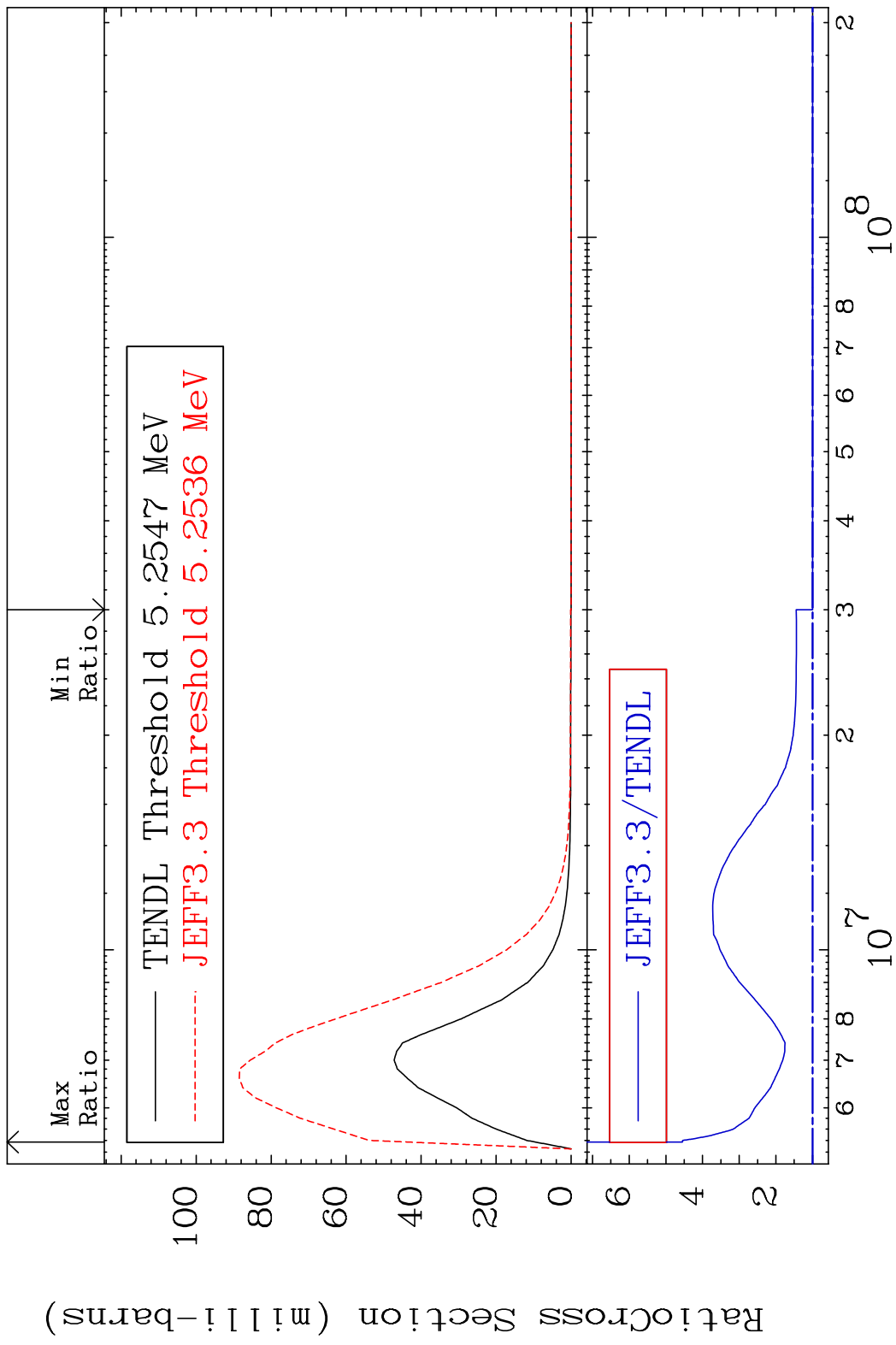


17 Incident Energy (eV) 20-Ca-48

MAT 2049 MT= 56 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 202.2 %

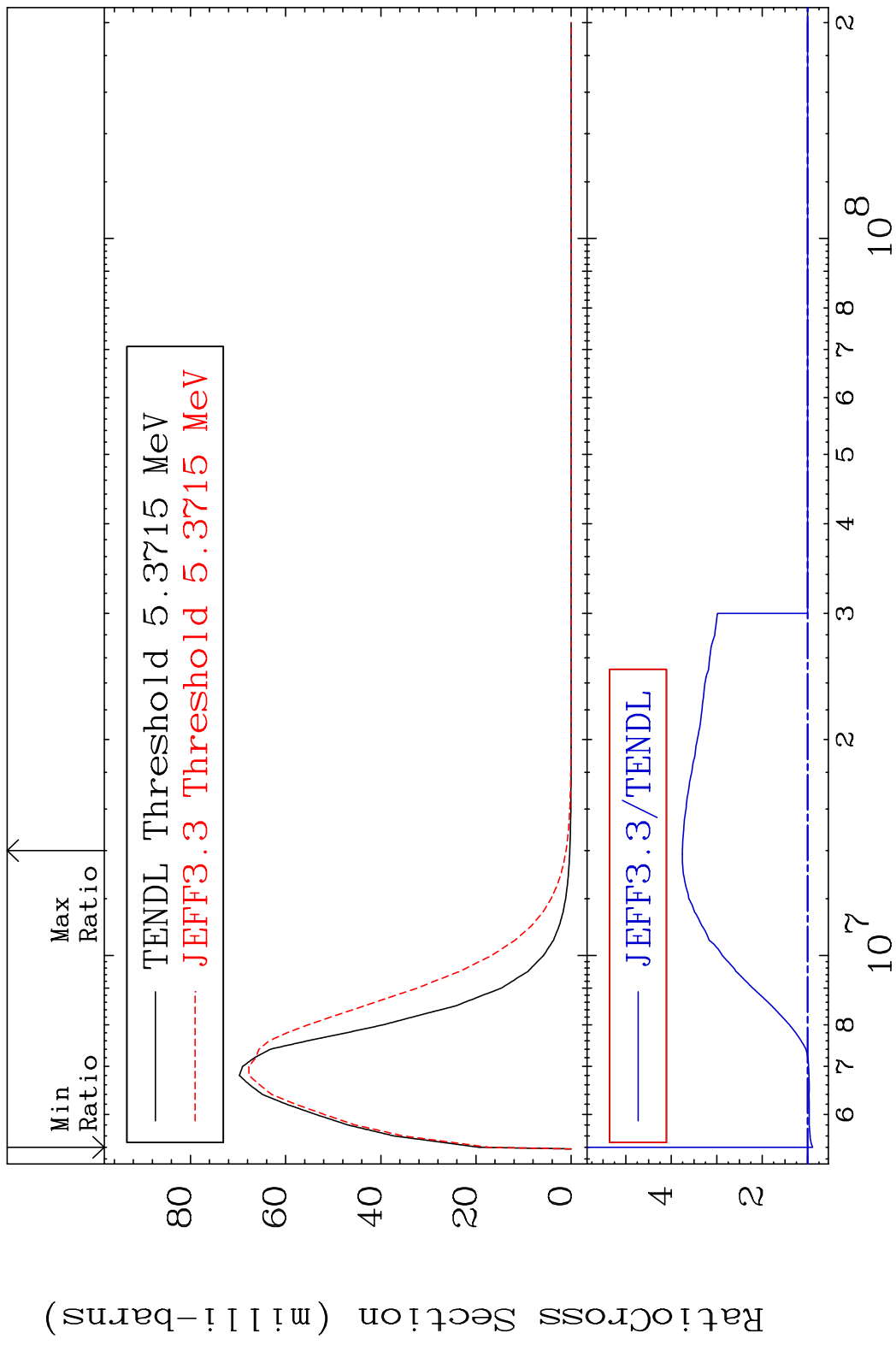


MAT 2049 MT= 57 (n,n') Level 20-Ca-48
 Cross Section 0.000 To 355.1 %

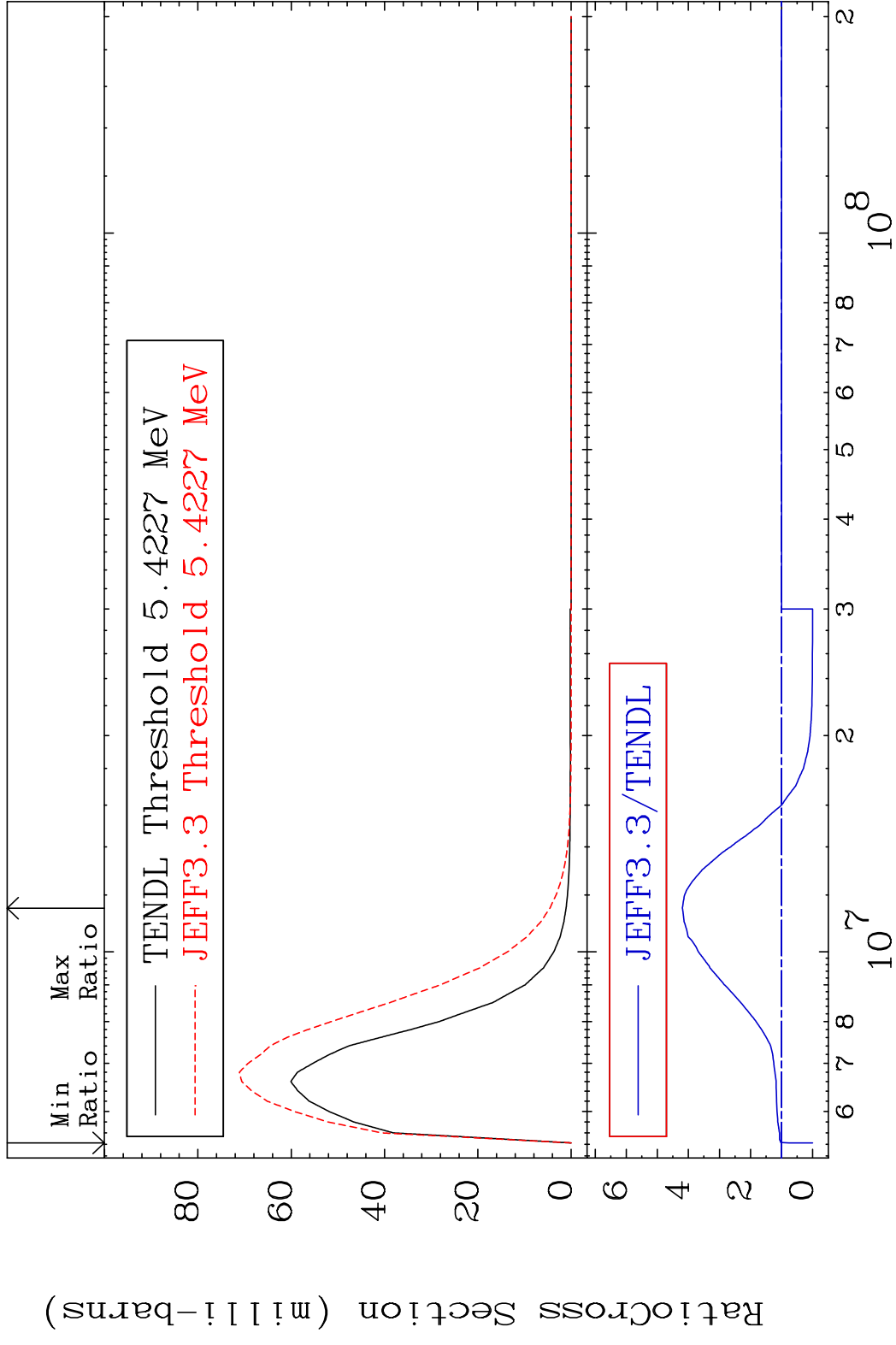


19 20-Ca-48

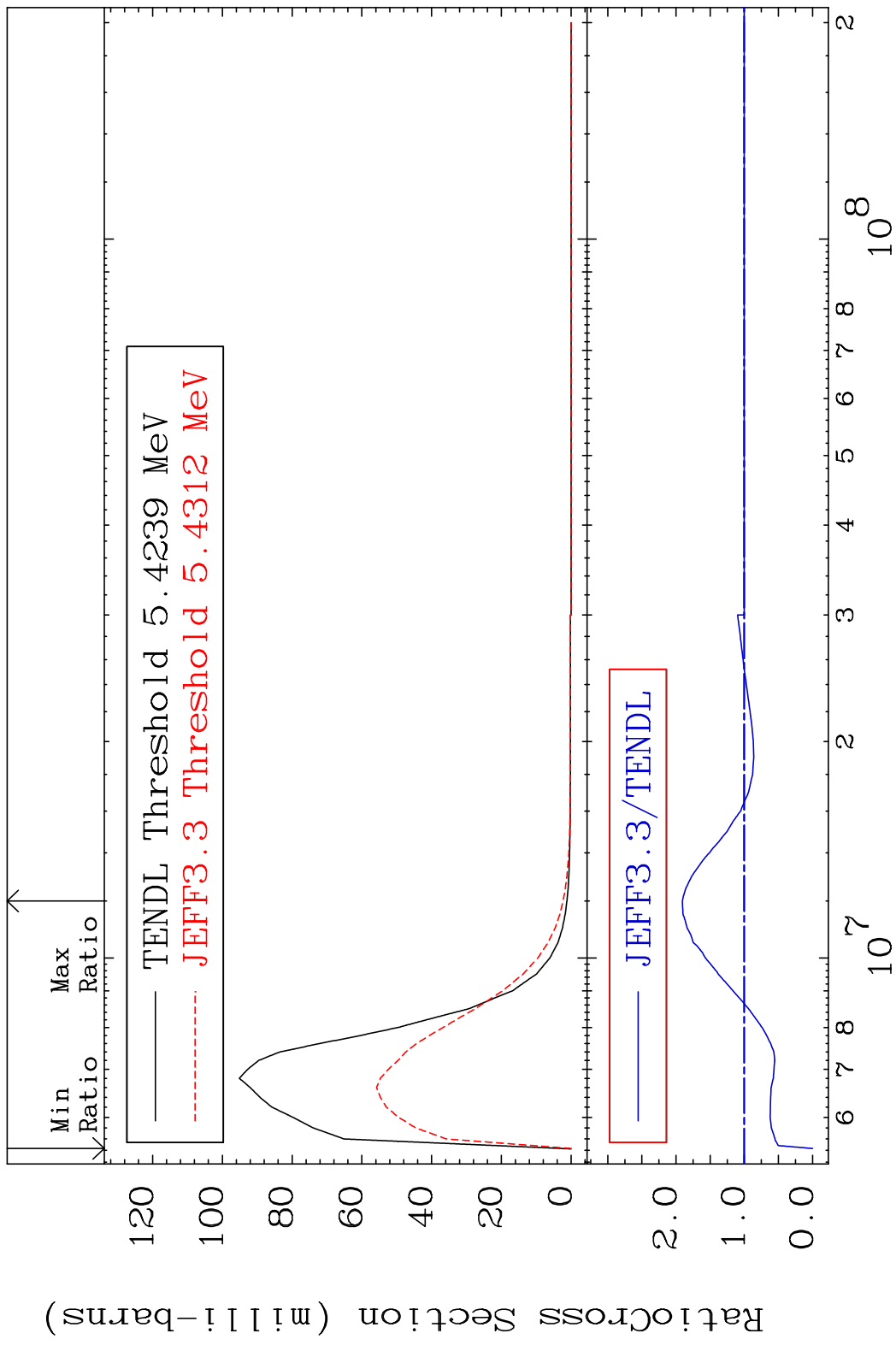
MAT 2049 MT= 58 (n, n') Level 20-Ca-48
 Cross Section -10.70 To 275.7 %



MAT 2049 MT= 59 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 319.5 %



MAT 2049 MT= 60 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 90.74 %

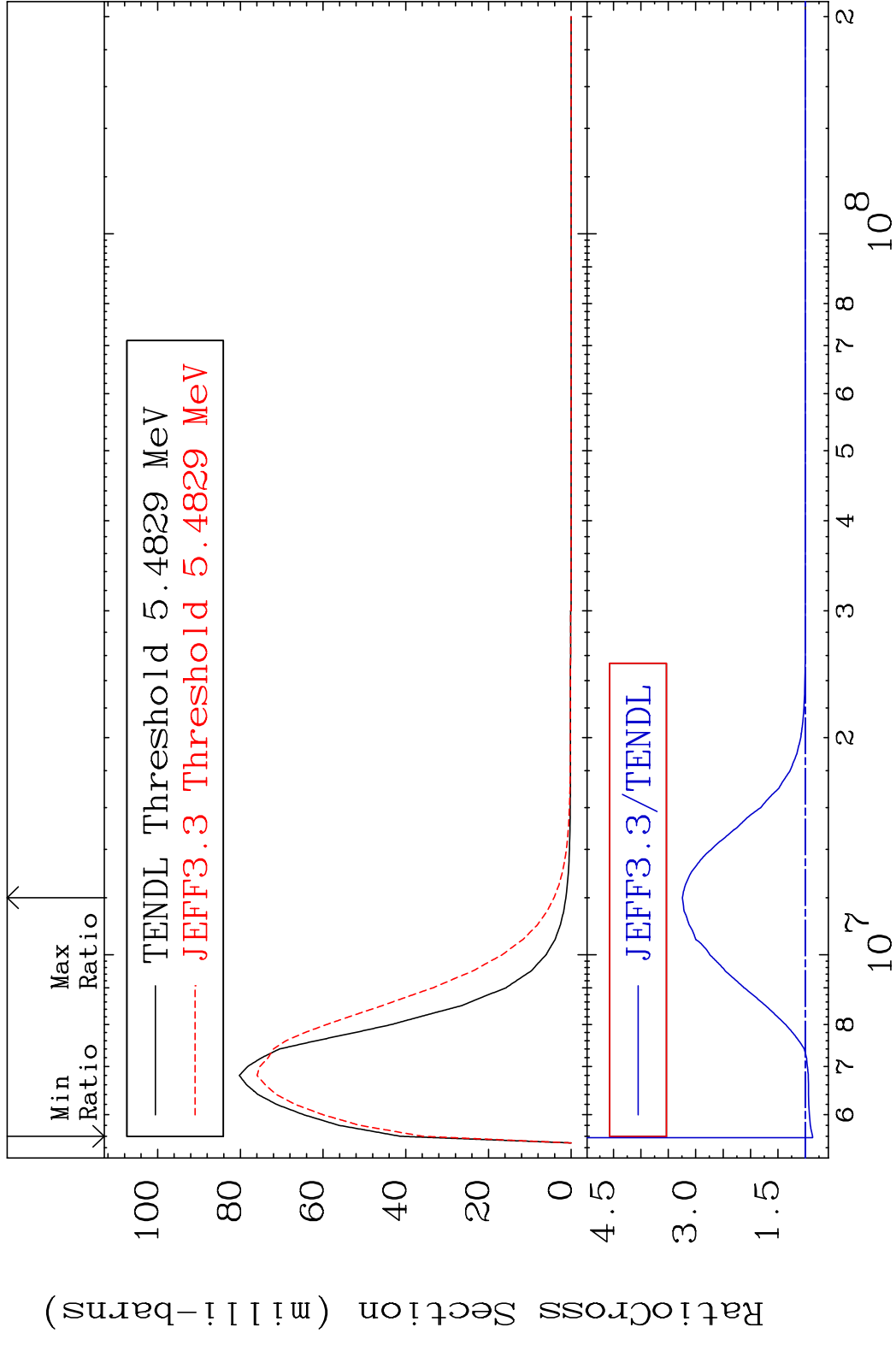


MAT 2049

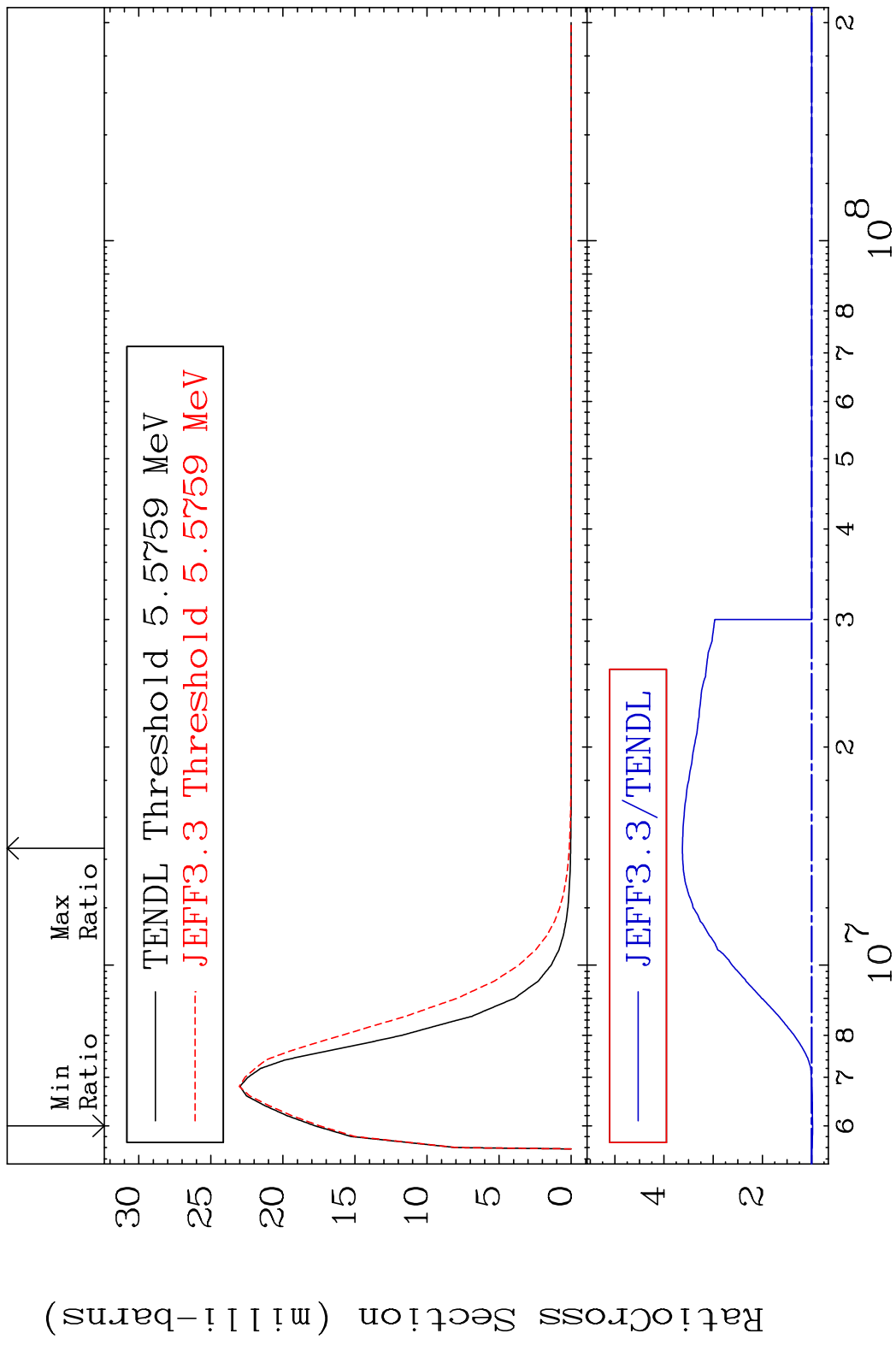
MT= 61 (n, n') Level

20-Ca-48

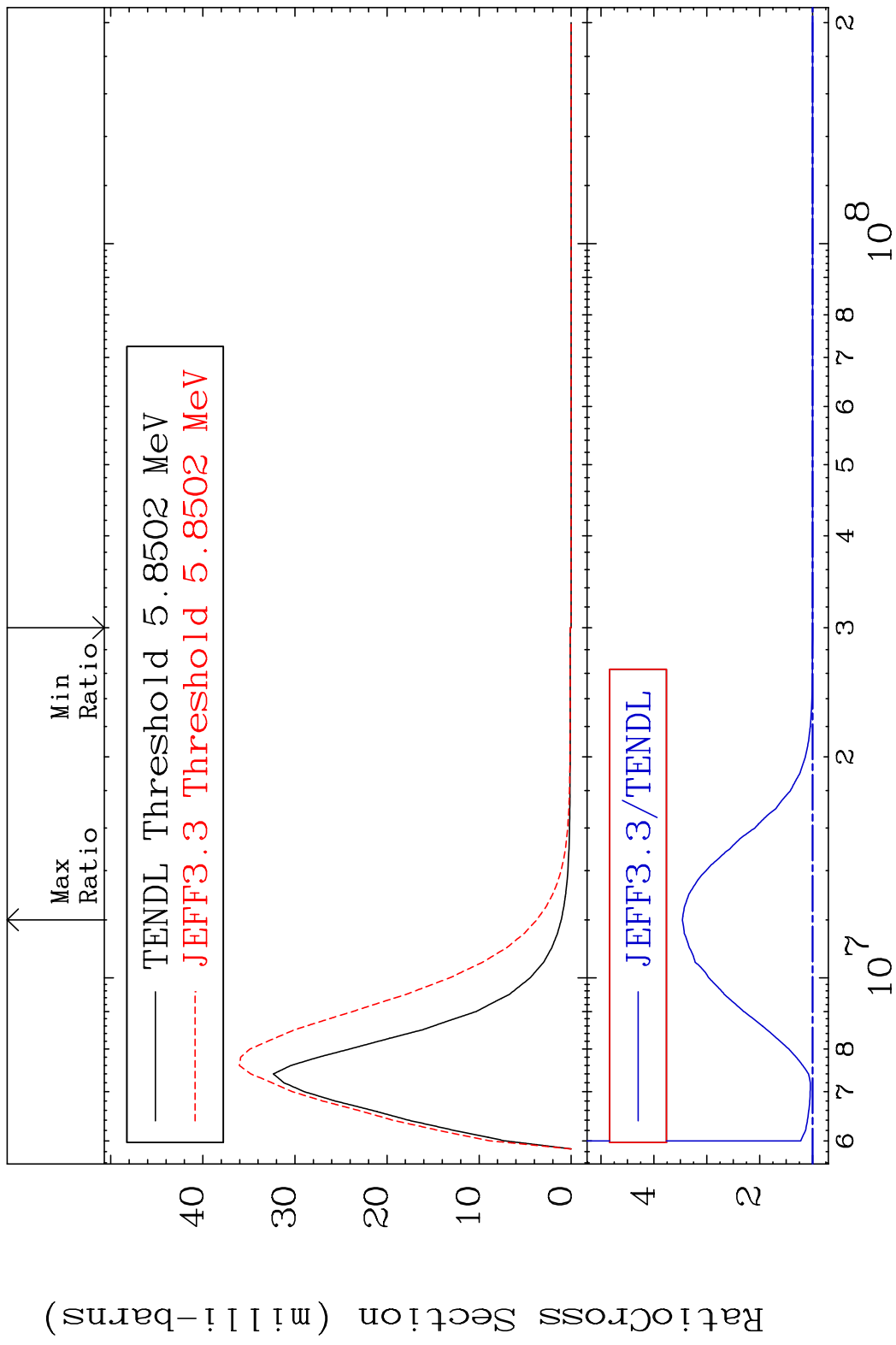
Cross Section -13.13 To 224.3 %



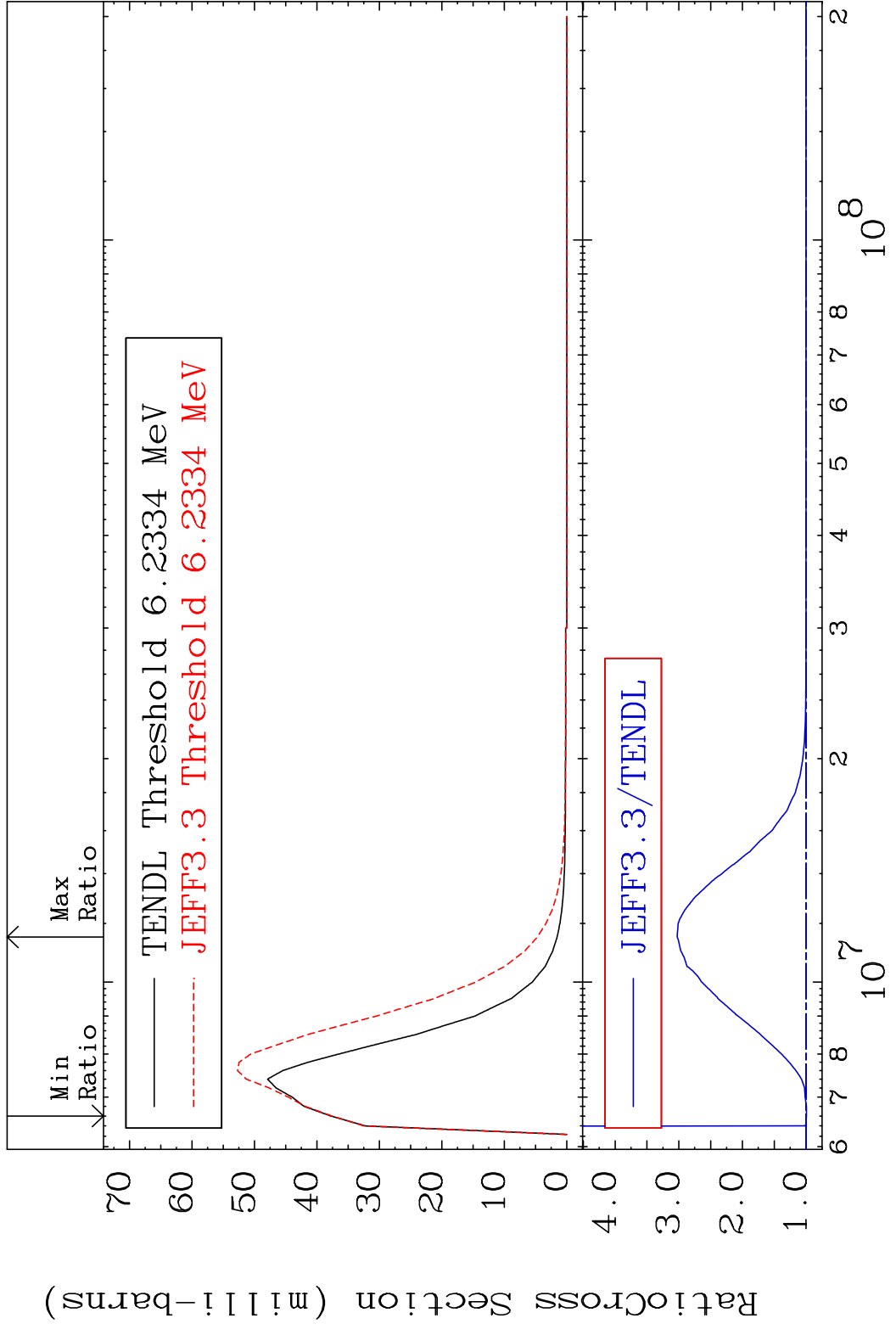
MAT 2049 MT= 62 (n, n') Level 20-Ca-48
 Cross Section -1.818 To 262.8 %



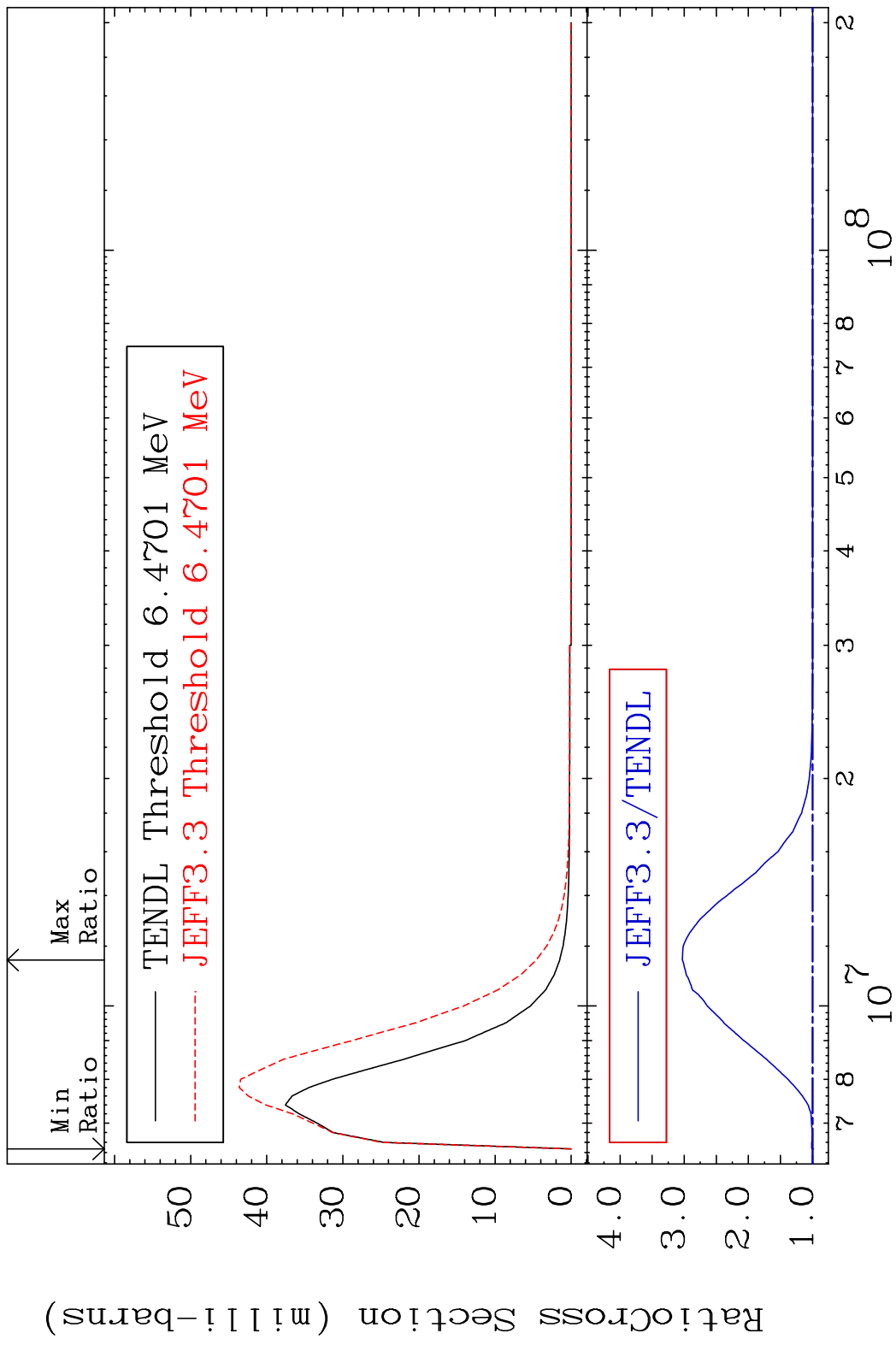
MAT 2049 MT= 63 (n, n') Level 20-Ca-48
 Cross Section 0.000 To 246.1 %



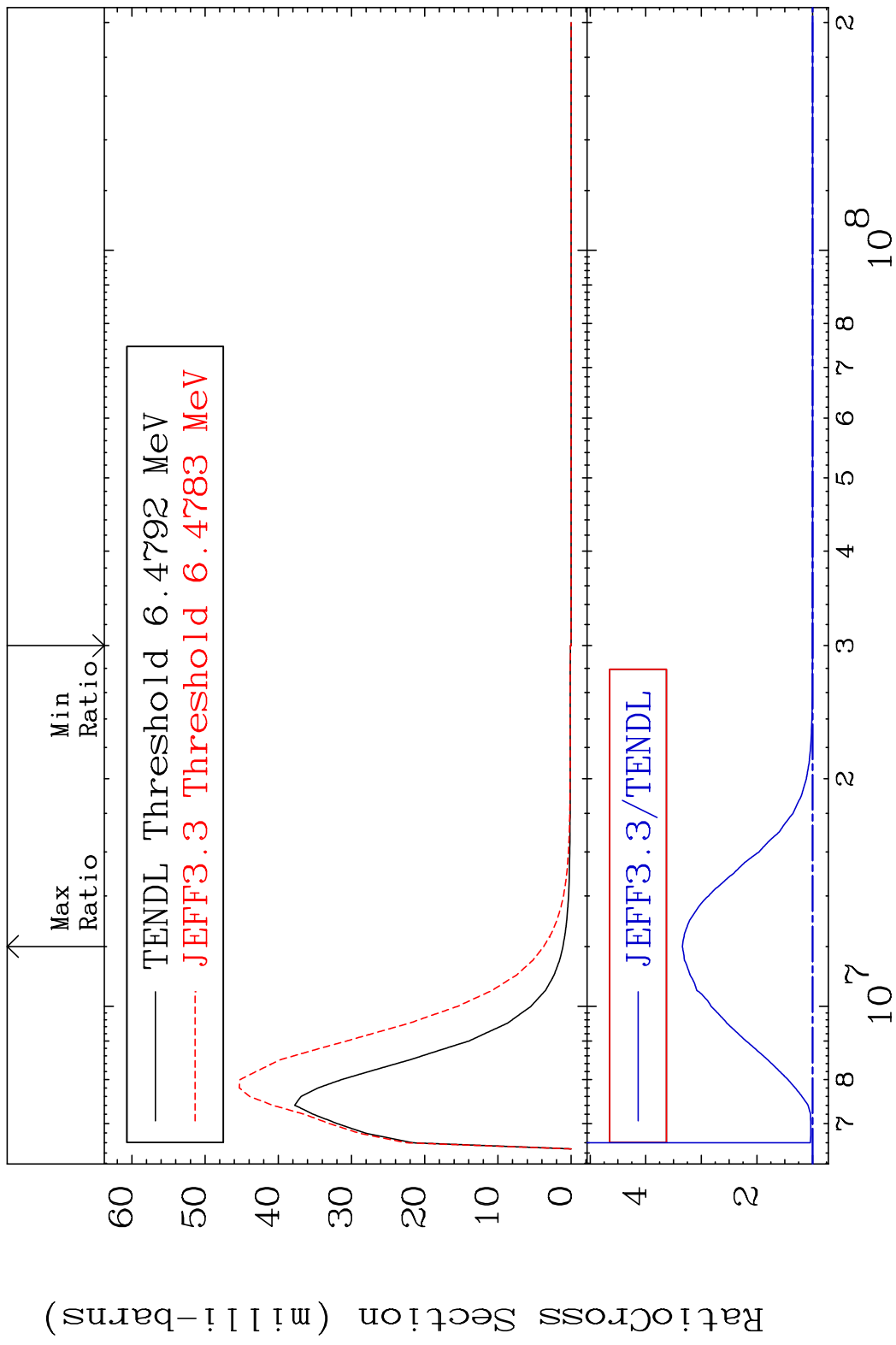
MAT 2049 MT= 64 (n,n') Level 20-Ca-48
 Cross Section -0.497 To 202.5 %



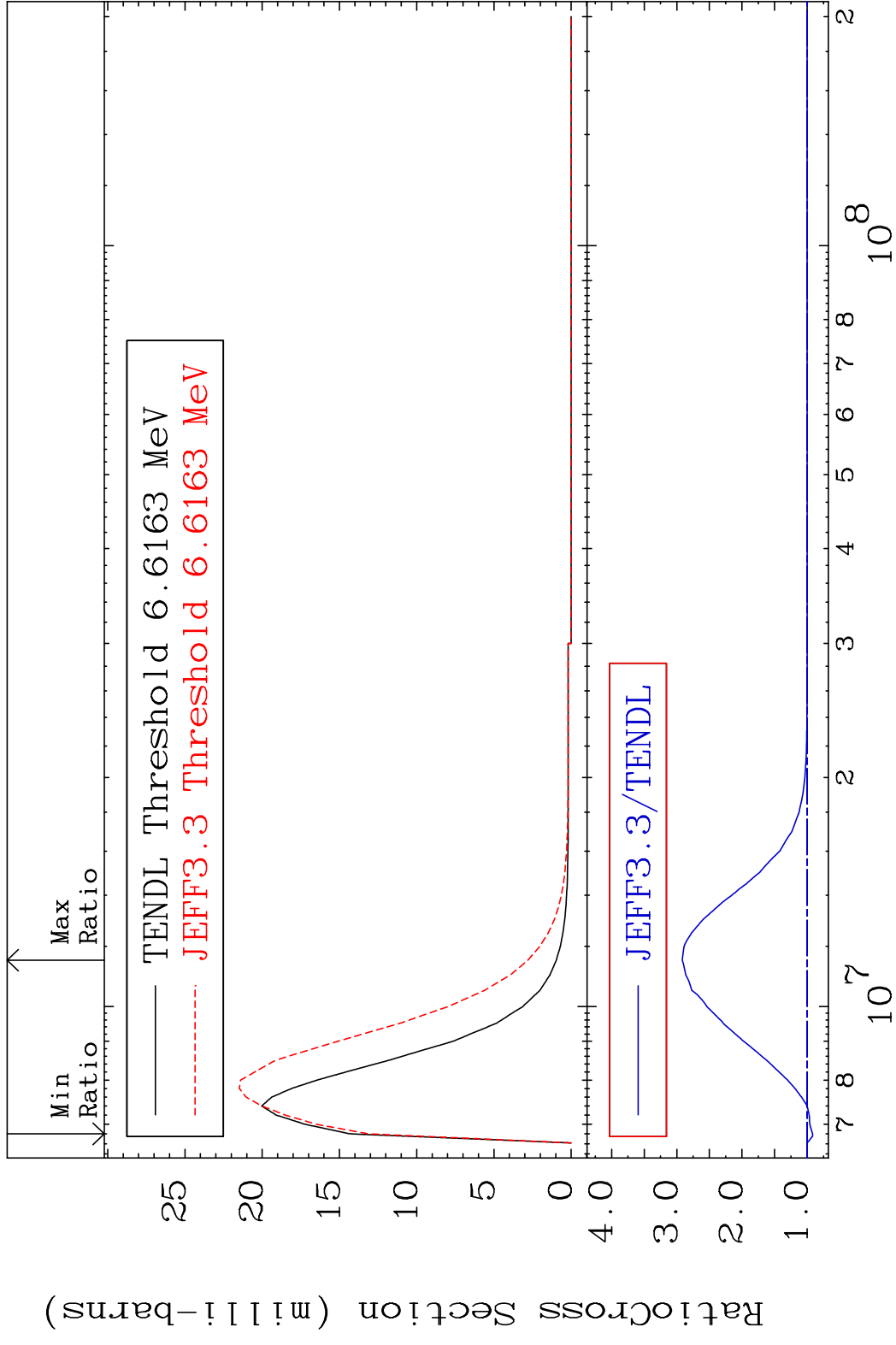
MAT 2049 MT= 65 (n,n') Level 20-Ca-48
 Cross Section 0.000 To 202.9 %



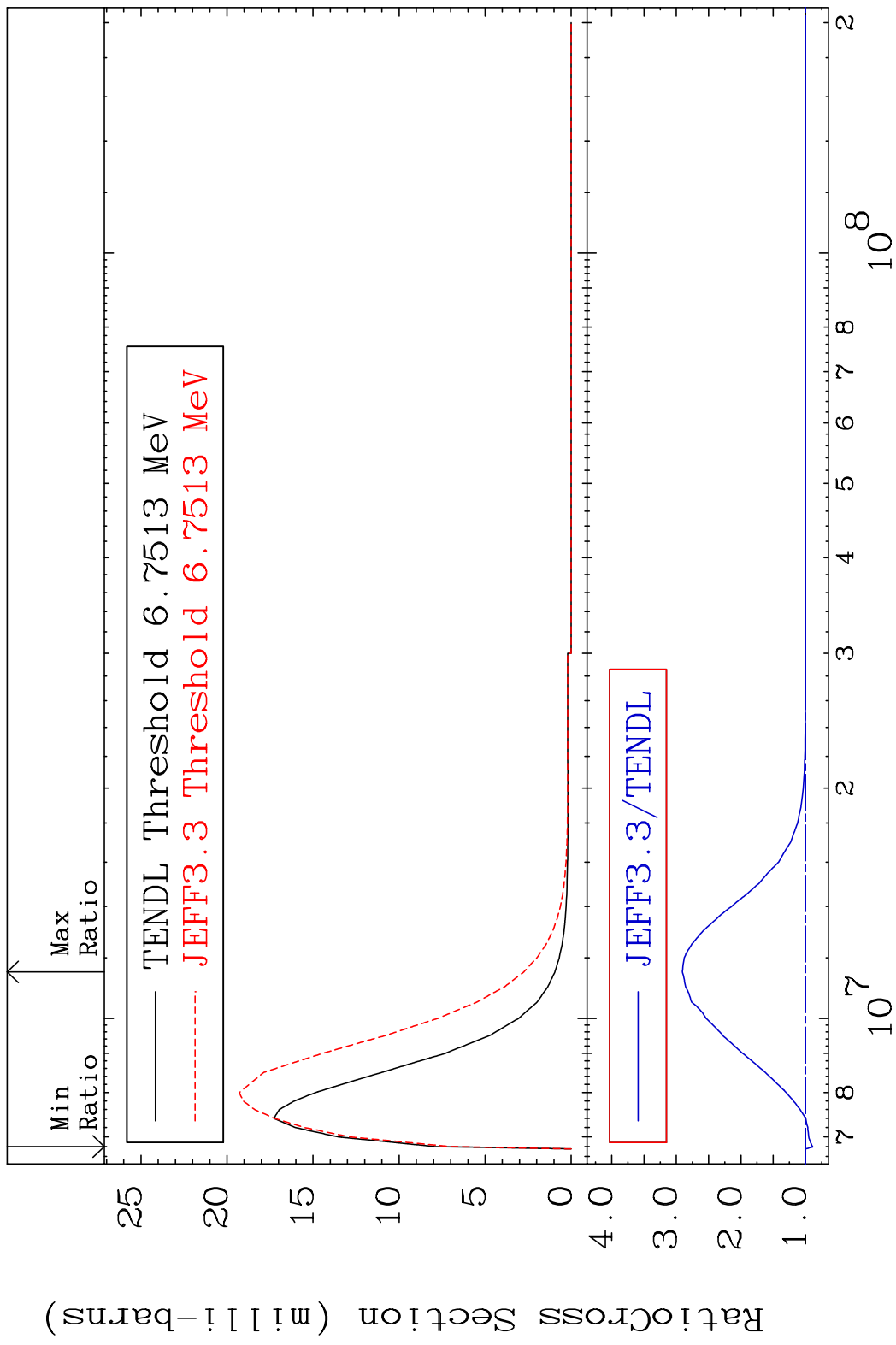
MAT 2049 MT= 66 (n,n') Level 20-Ca-48
 Cross Section 0.000 To 234.2 %



MAT 2049 MT= 67 (n,n') Level 20-Ca-48
 Cross Section -8.293 To 191.5 %

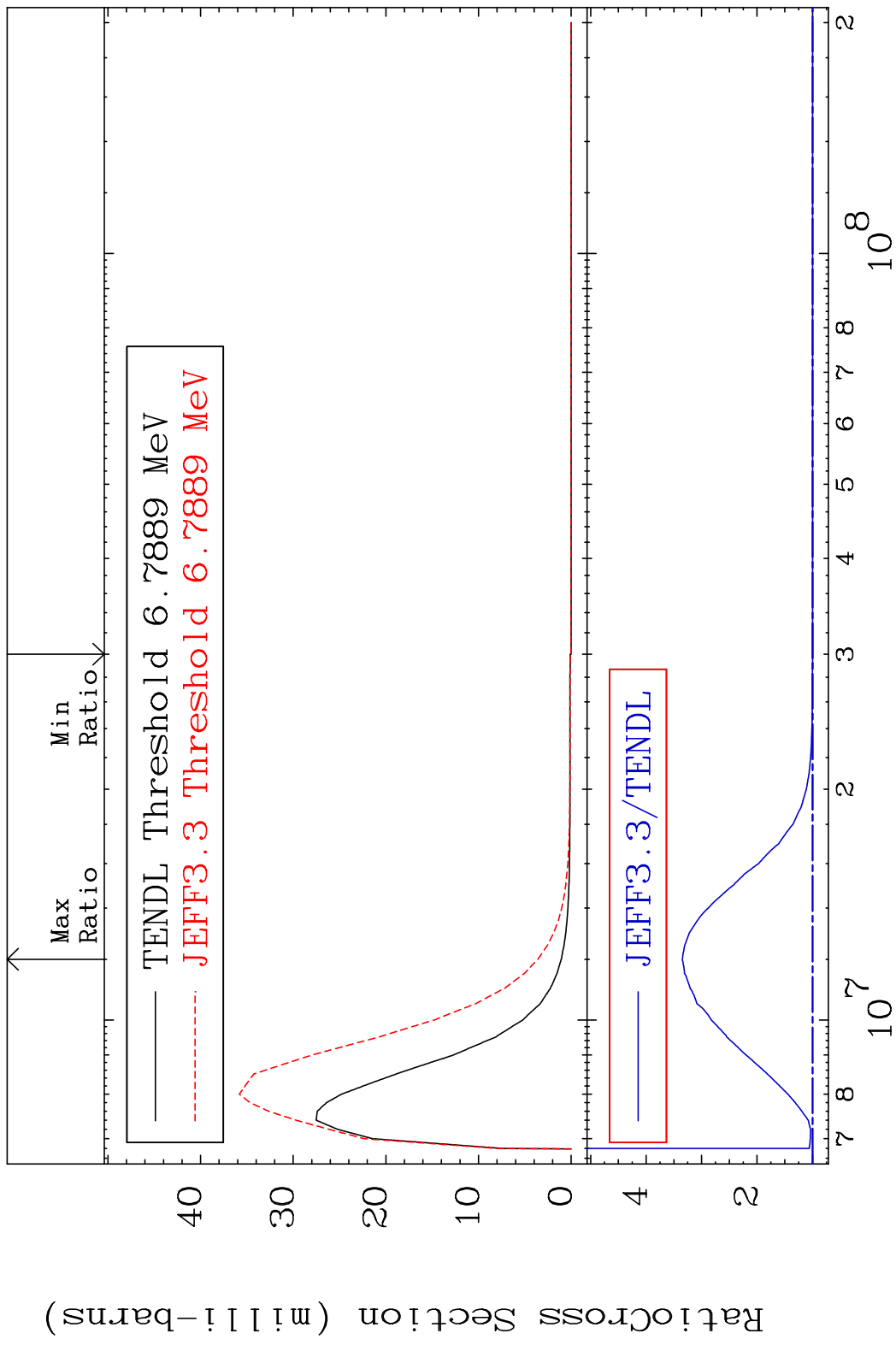


MAT 2049 MT= 68 (n,n') Level 20-Ca-48
 Cross Section -10.92 To 190.6 %

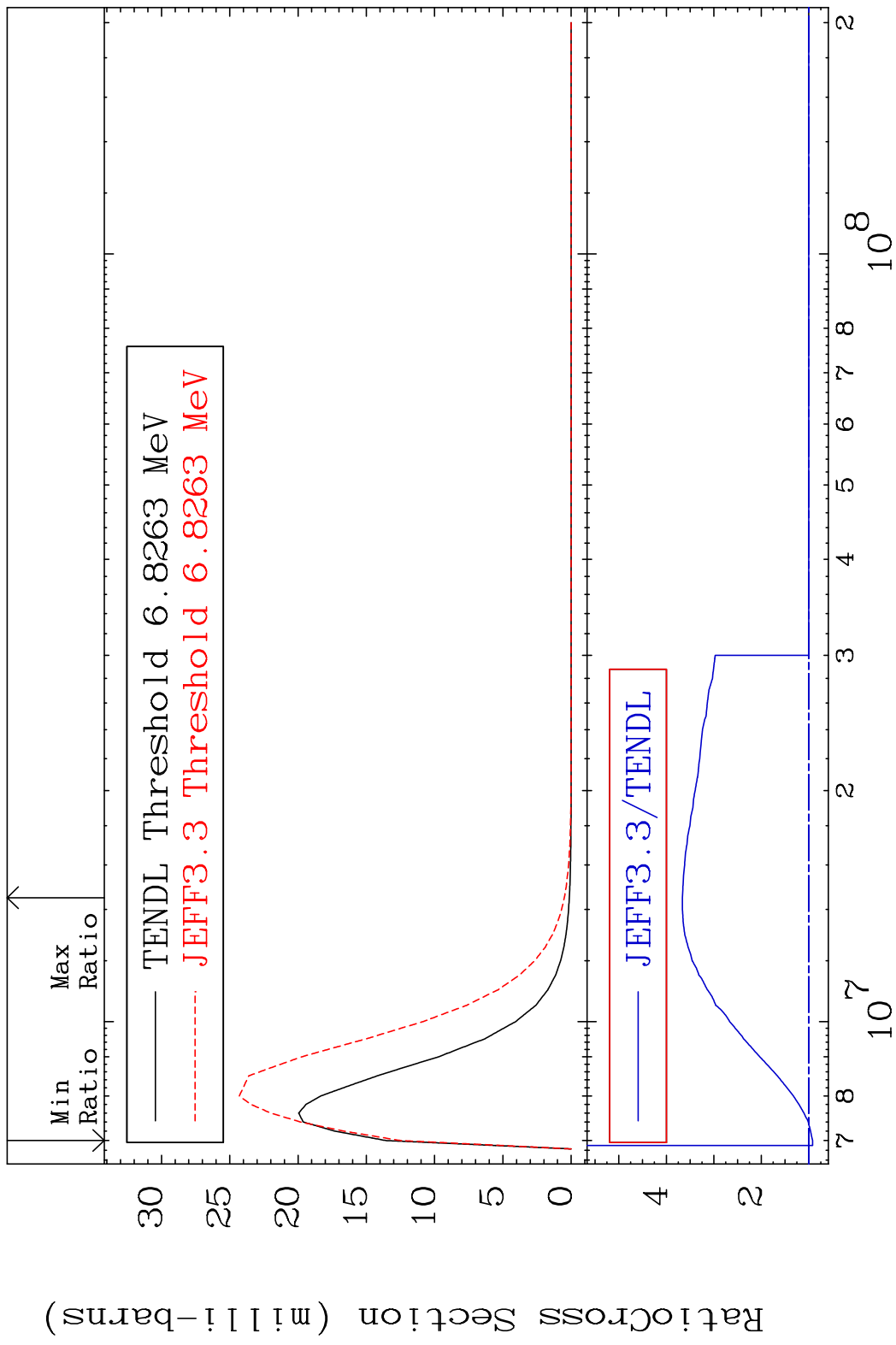


30 Incident Energy (eV) 20-Ca-48

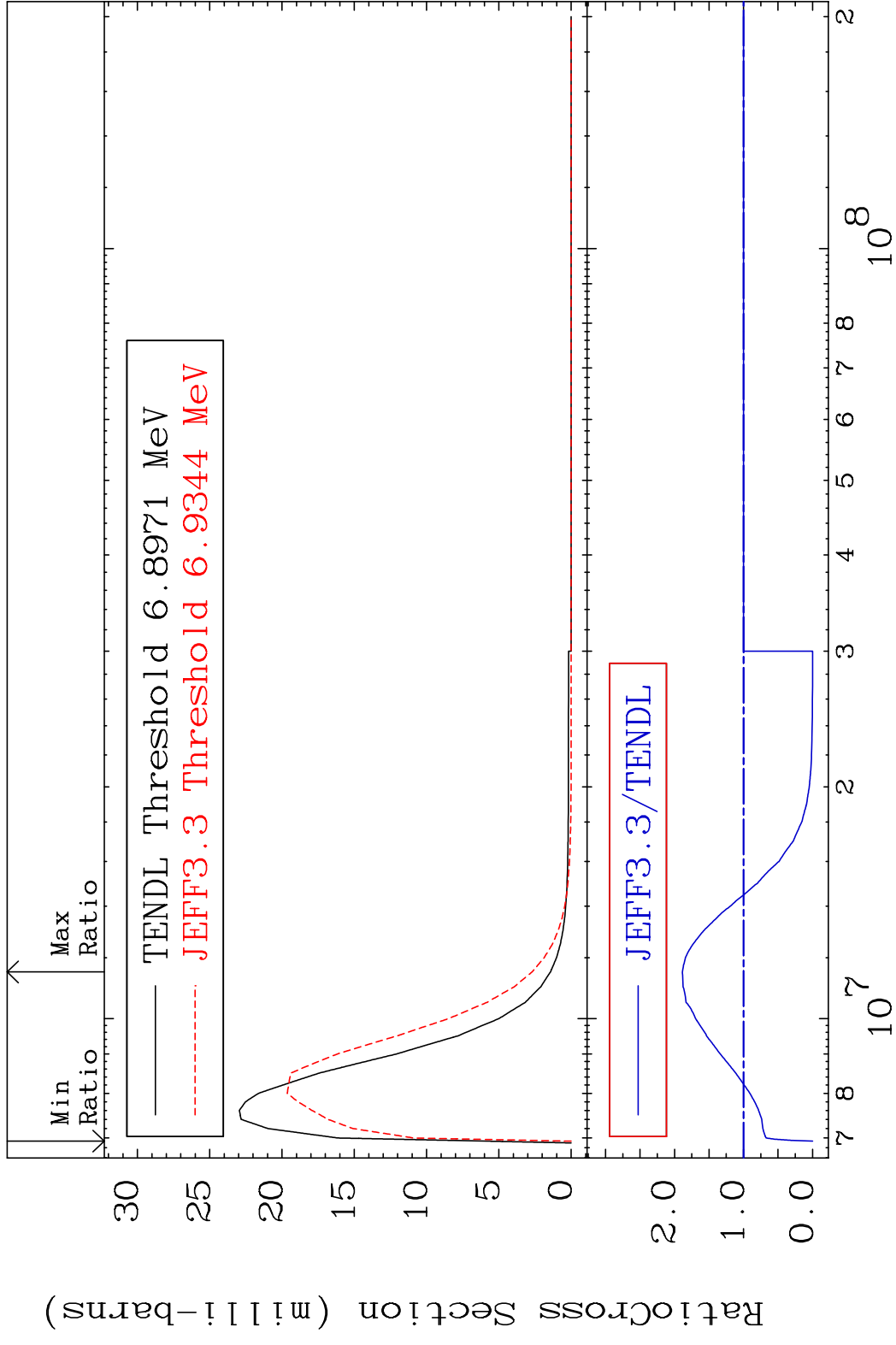
MAT 2049 MT= 69 (n, n') Level 20-Ca-48
 Cross Section 0.000 To 234.7 %



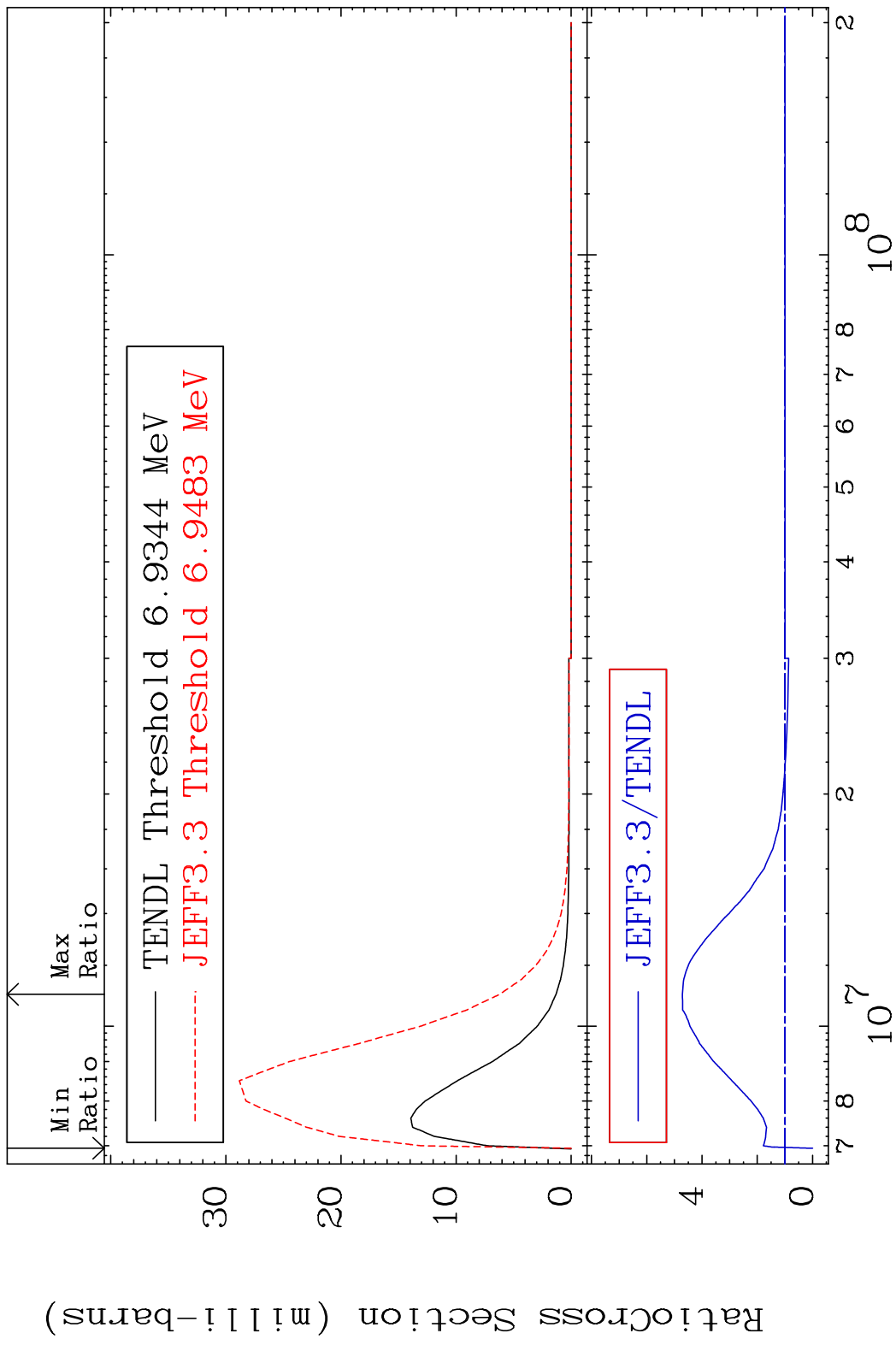
MAT 2049 MT= 70 (n,n') Level 20-Ca-48
 Cross Section -7.848 To 266.2 %



MAT 2049 MT= 71 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 88.65 %

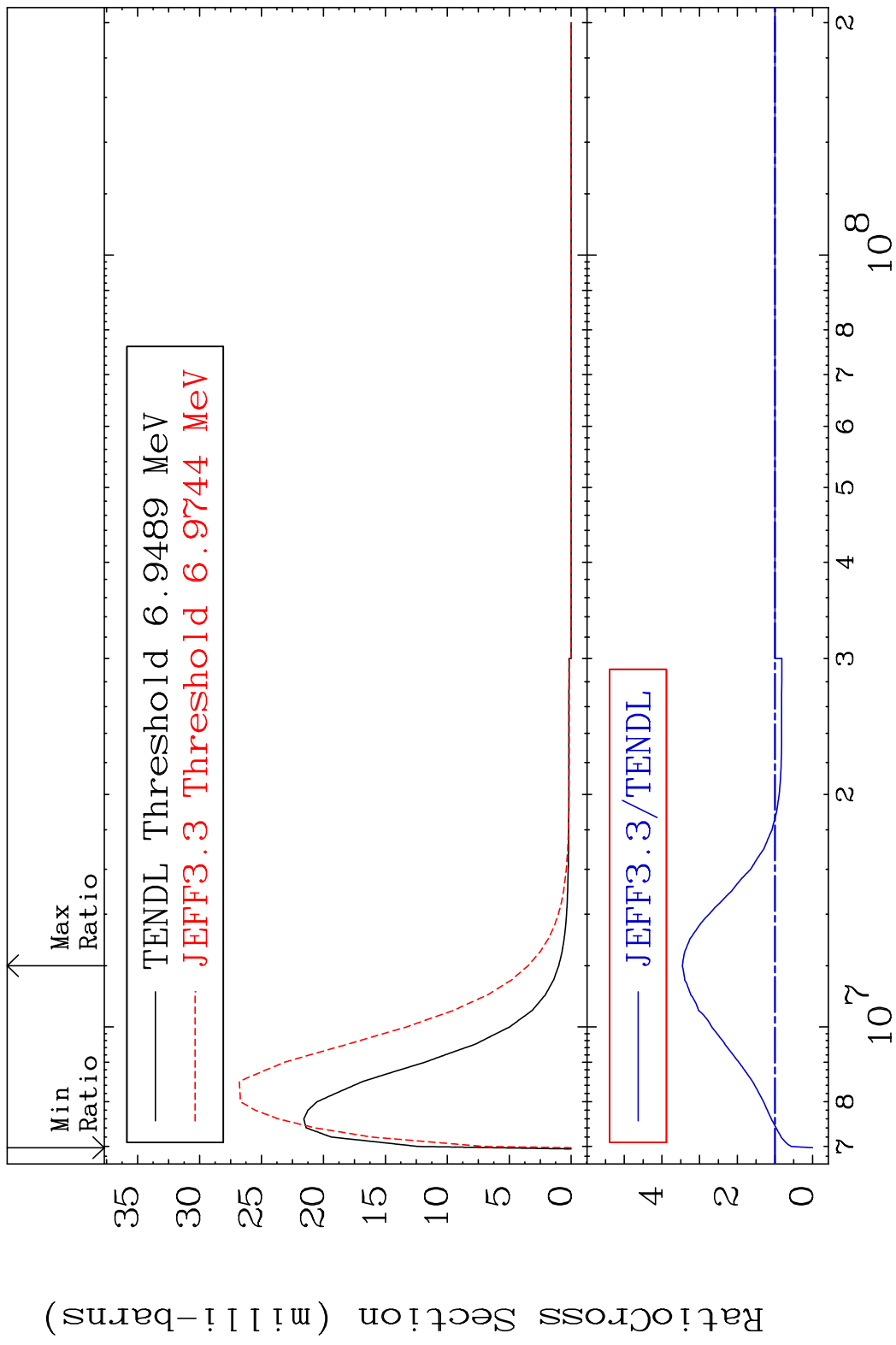


MAT 2049 MT= 72 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 371.2 %

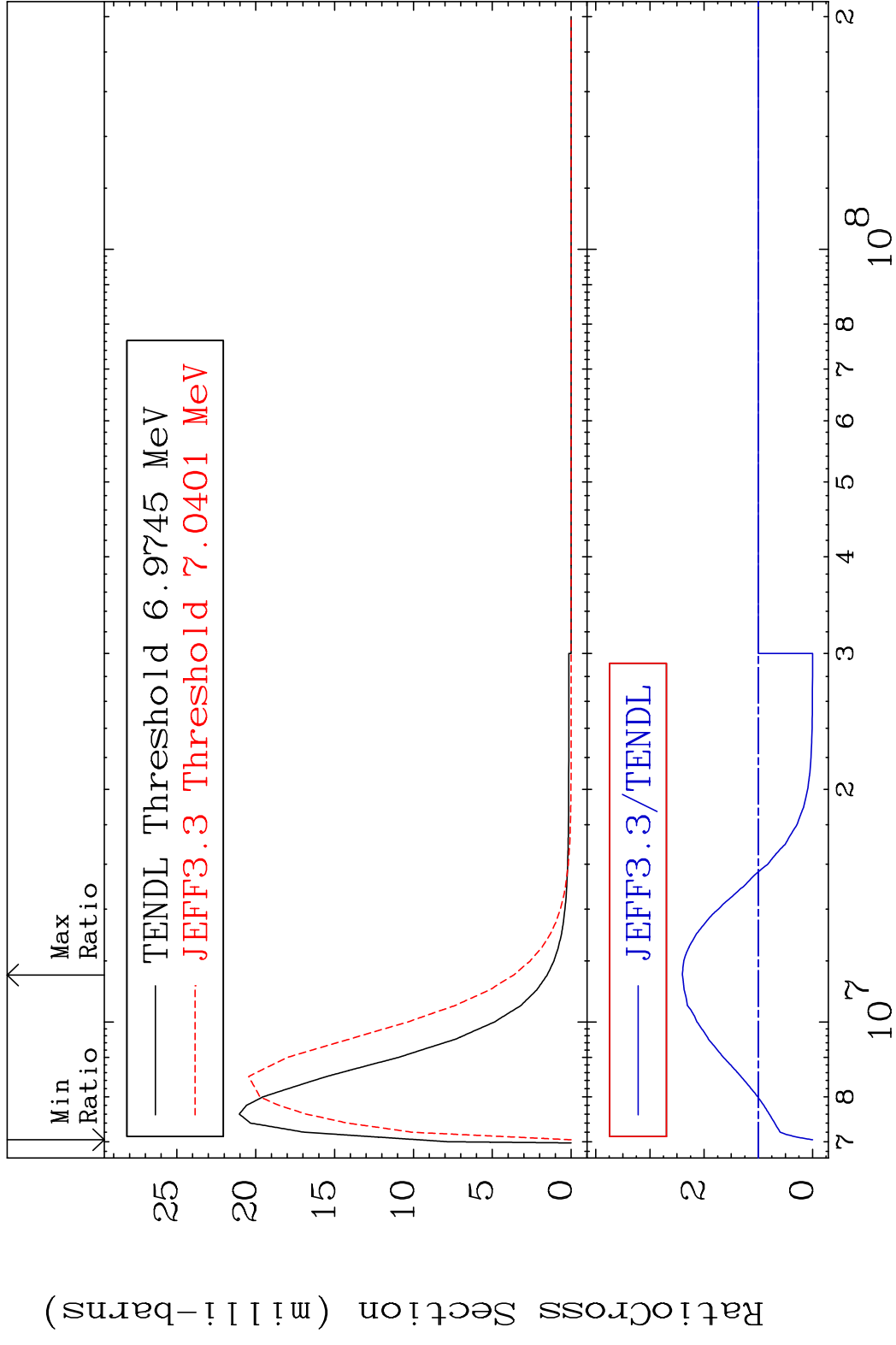


34 20-Ca-48

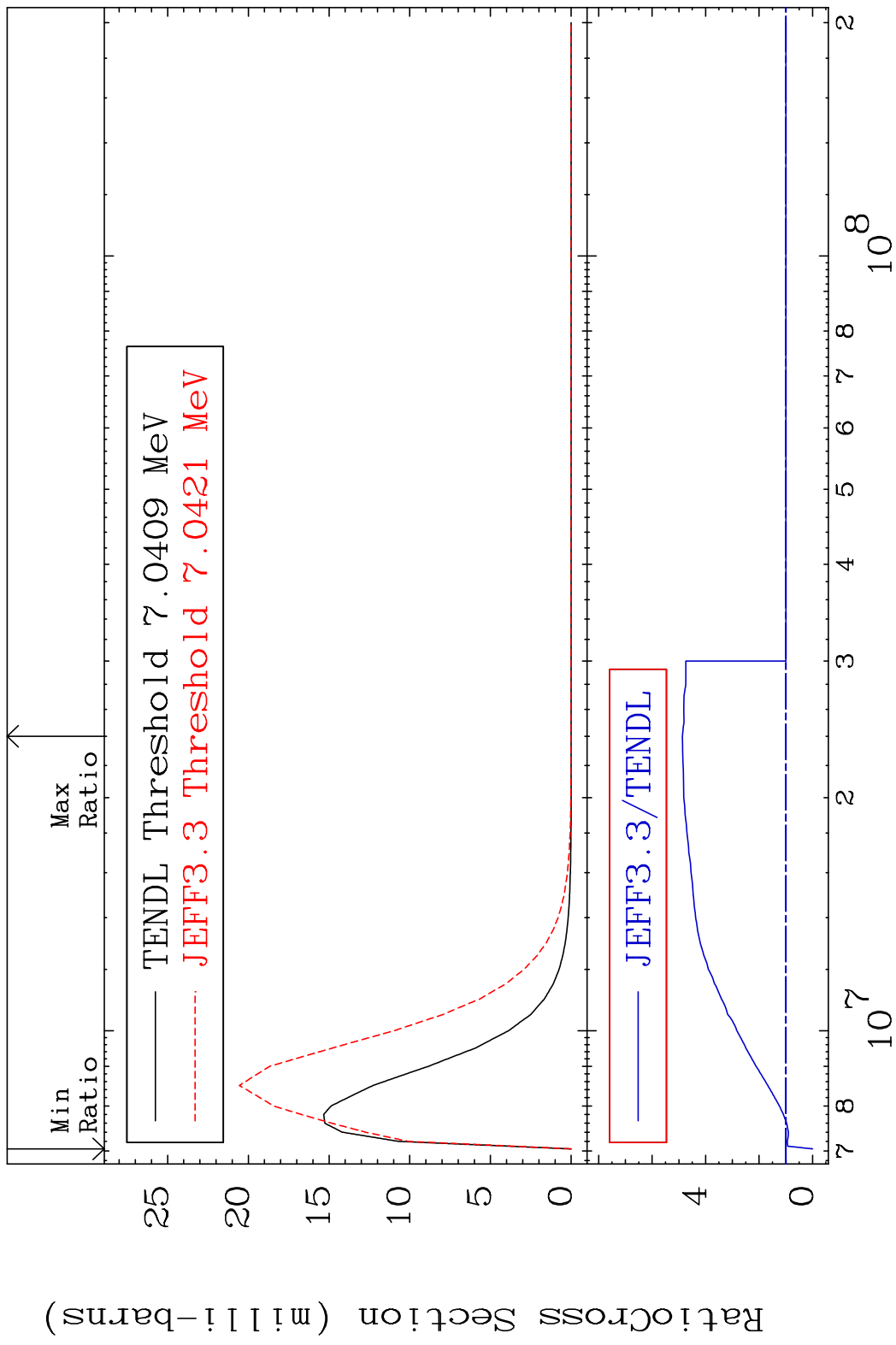
MAT 2049 MT= 73 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 245.8 %



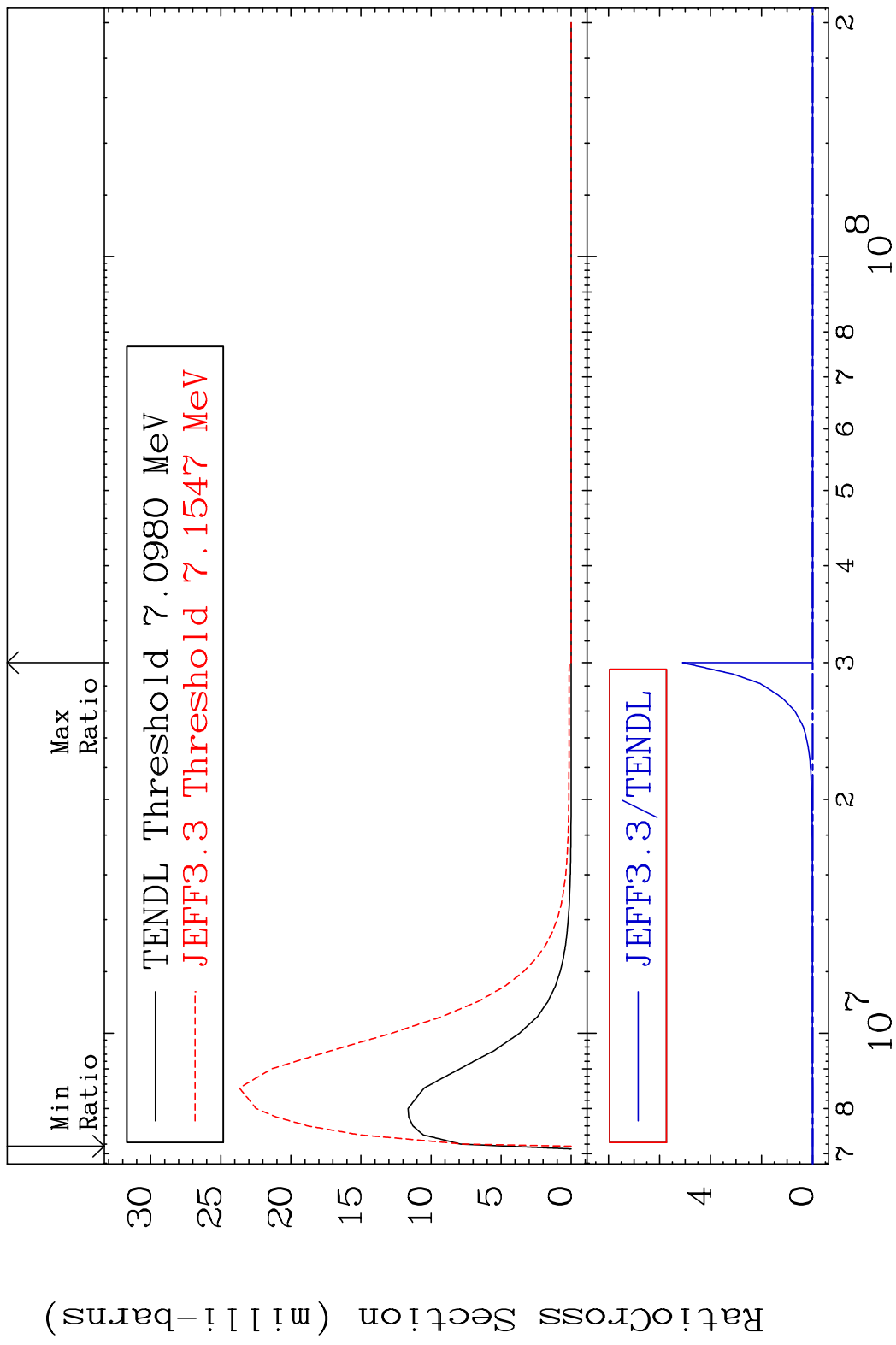
MAT 2049 MT= 74 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 140.2 %



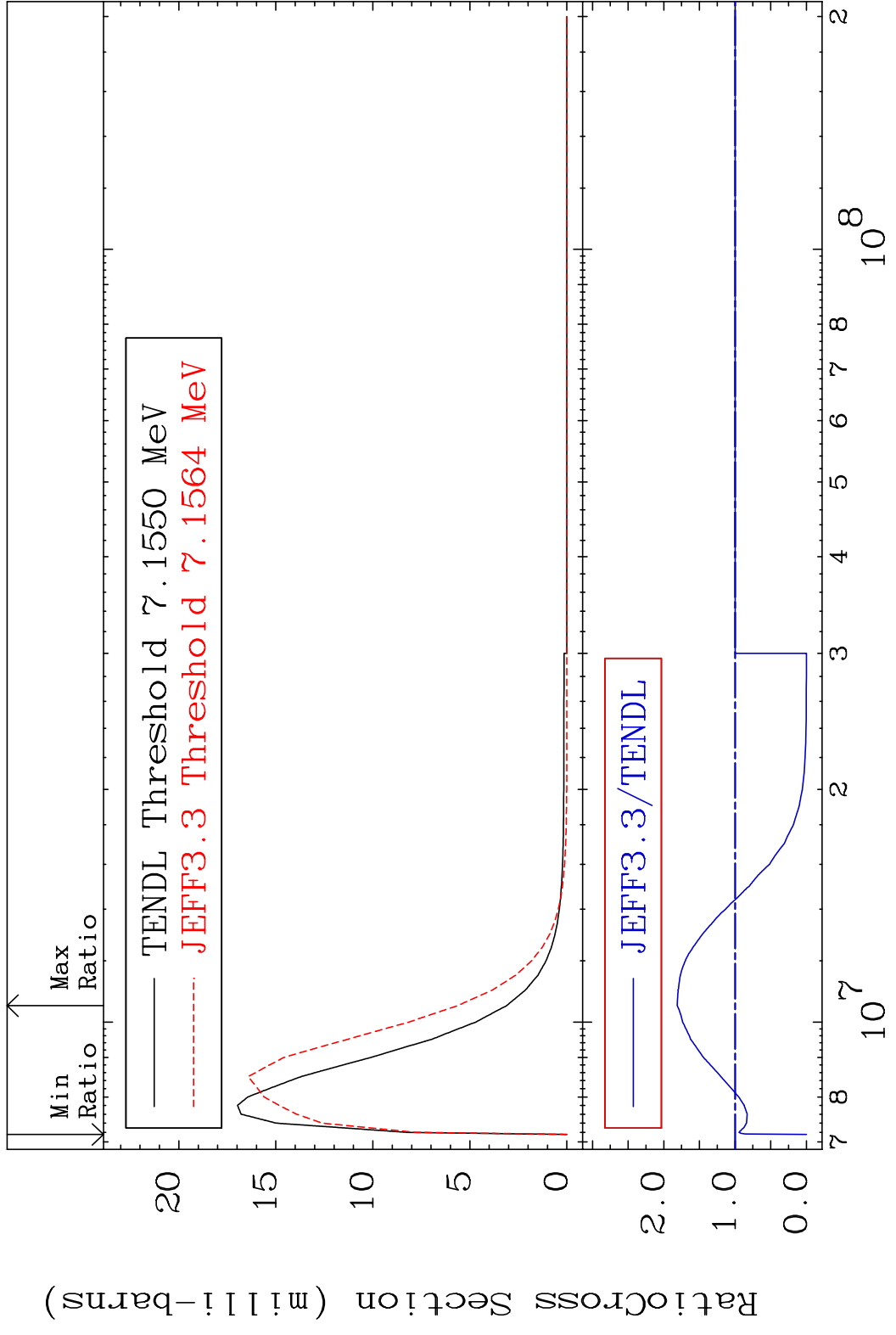
MAT 2049 MT= 75 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 386.9 %



MAT 2049 MT= 76 (n,n') Level 20-Ca-48
 Cross Section -100.0 To 9999. %

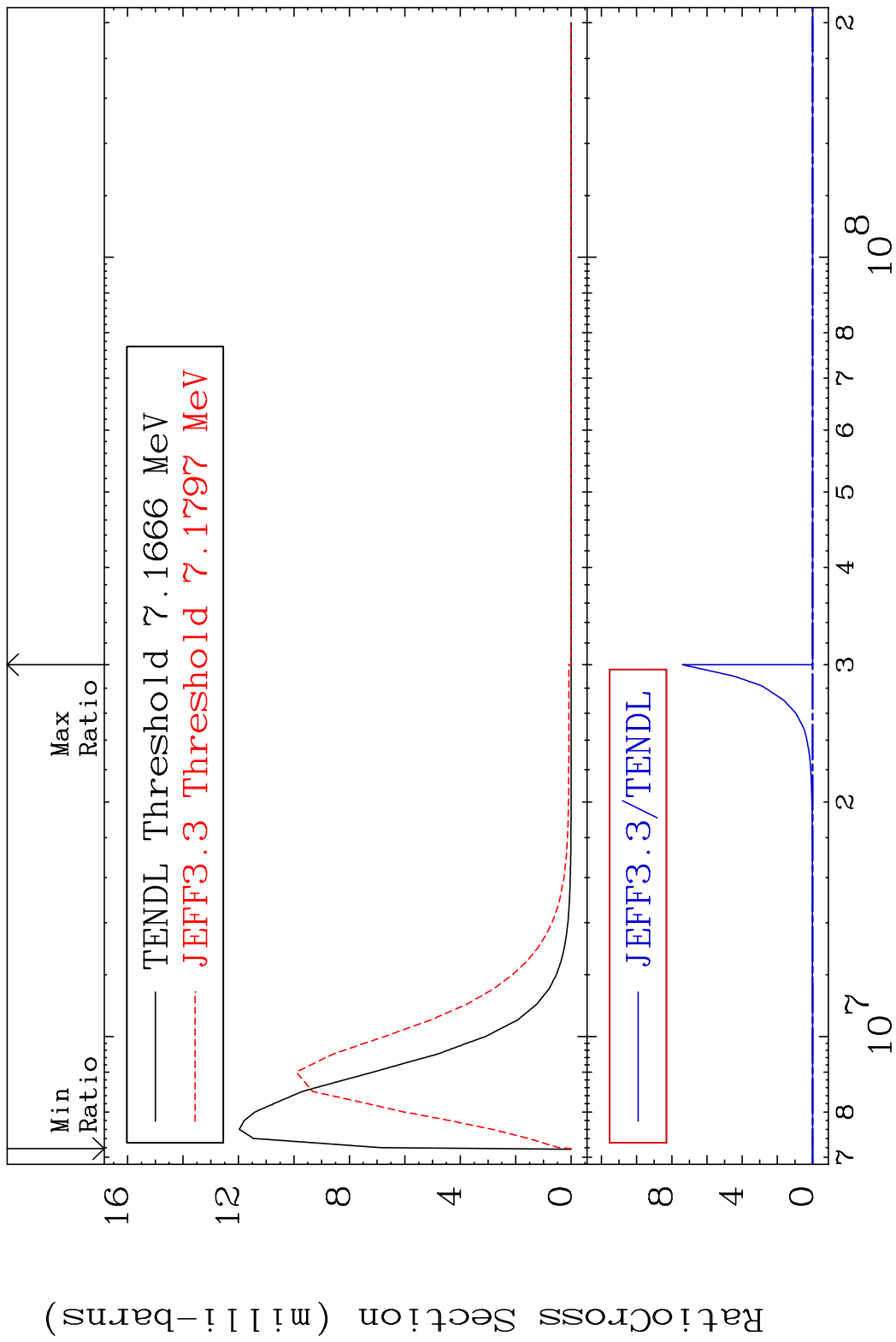


MAT 2049 MT= 77 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 81.22 %



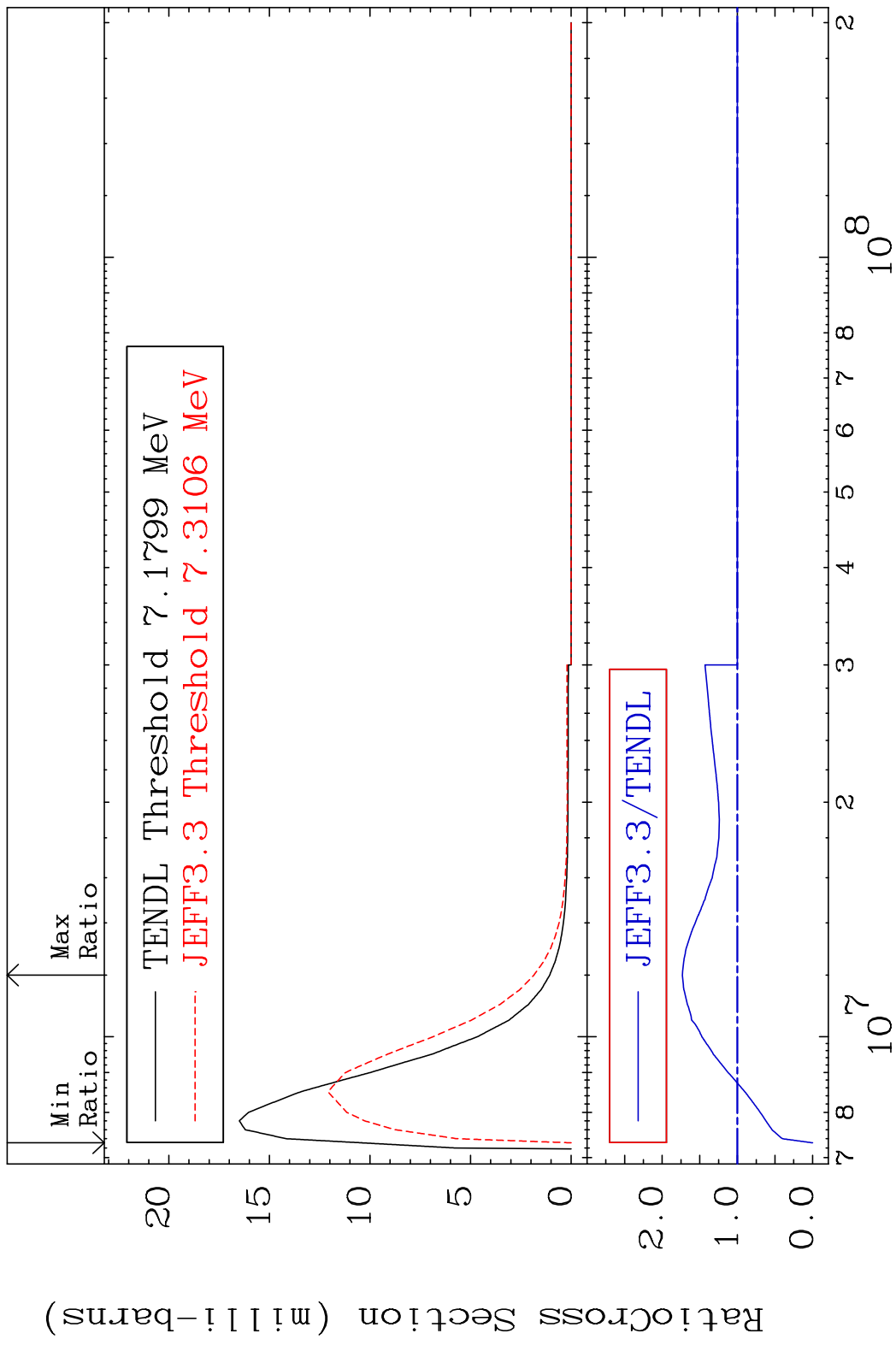
39 20-Ca-48

MAT 2049 MT= 78 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 9999. %



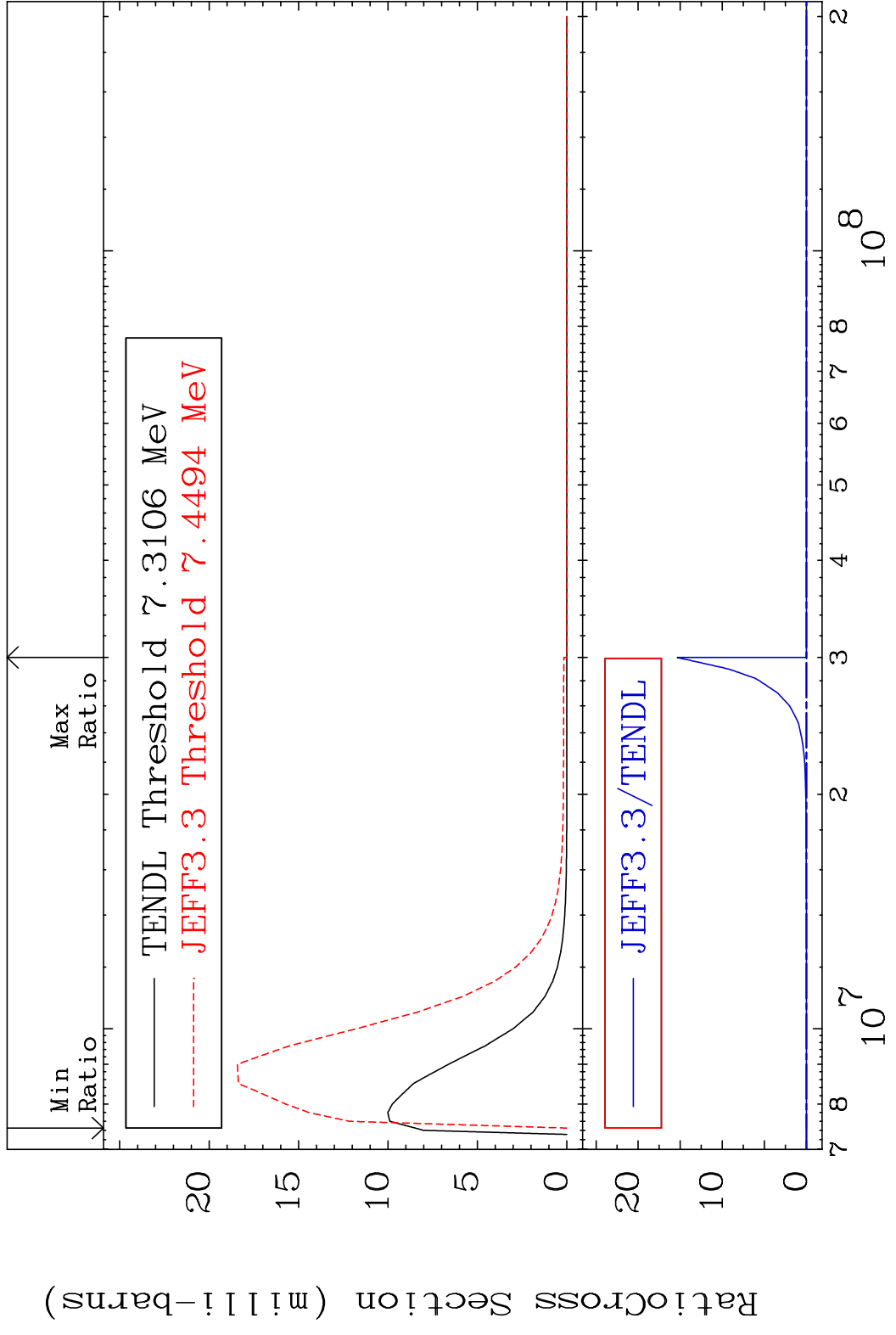
40 8 4 0 8 4 0 7 8 10 2 3 4 5 6 7 8 10 8 2

MAT 2049 MT= 79 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 73.18 %



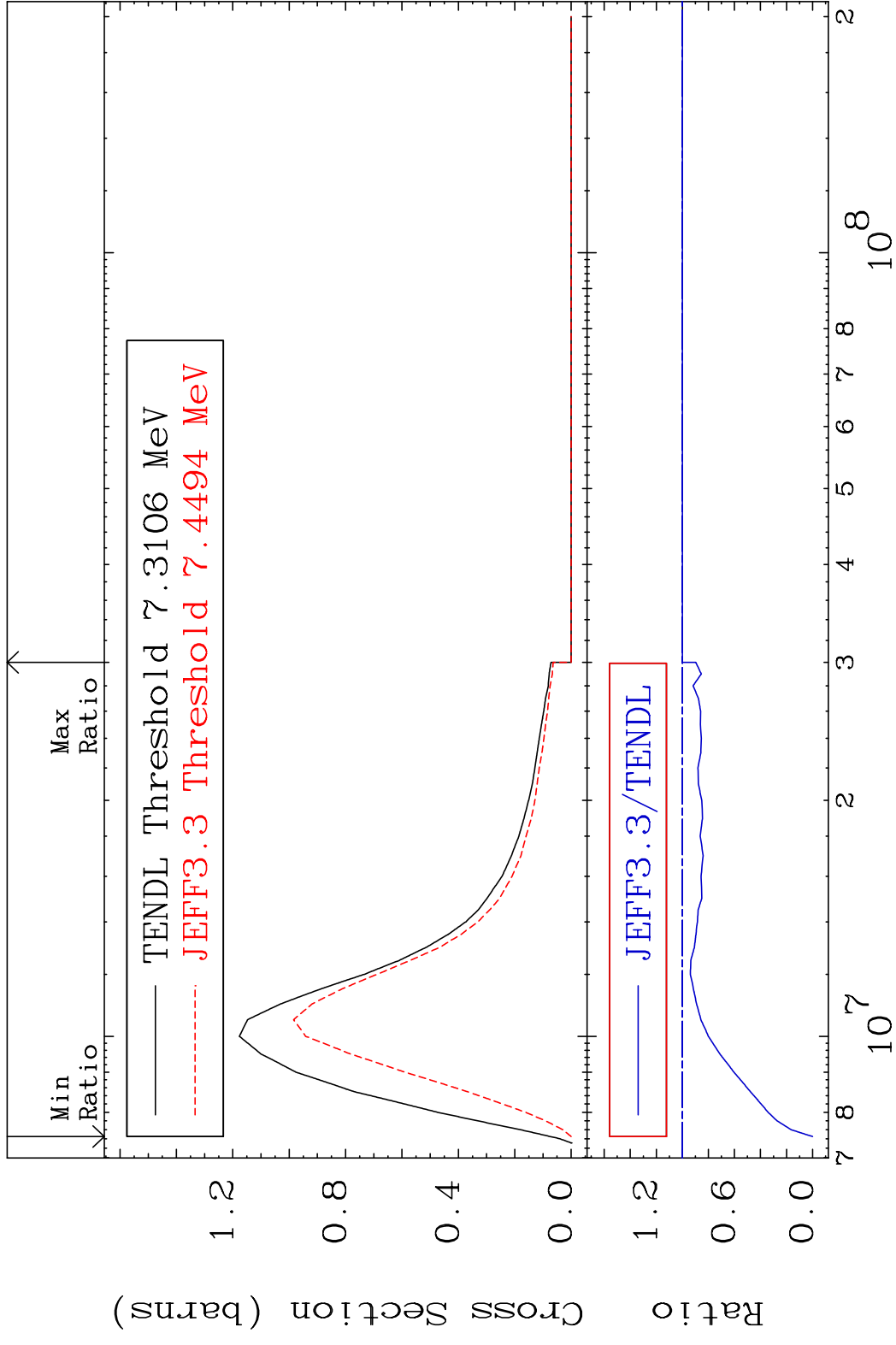
41 Incident Energy (eV) 20-Ca-48

MAT 2049 MT= 80 (n, n') Level 20-Ca-48
 Cross Section -100.0 To 9999. %



42 Incident Energy (eV) 20-Ca-48

MAT 2049 (n,n') Continuum 20-Ca-48
 Cross Section -100.0 To 0.000 %

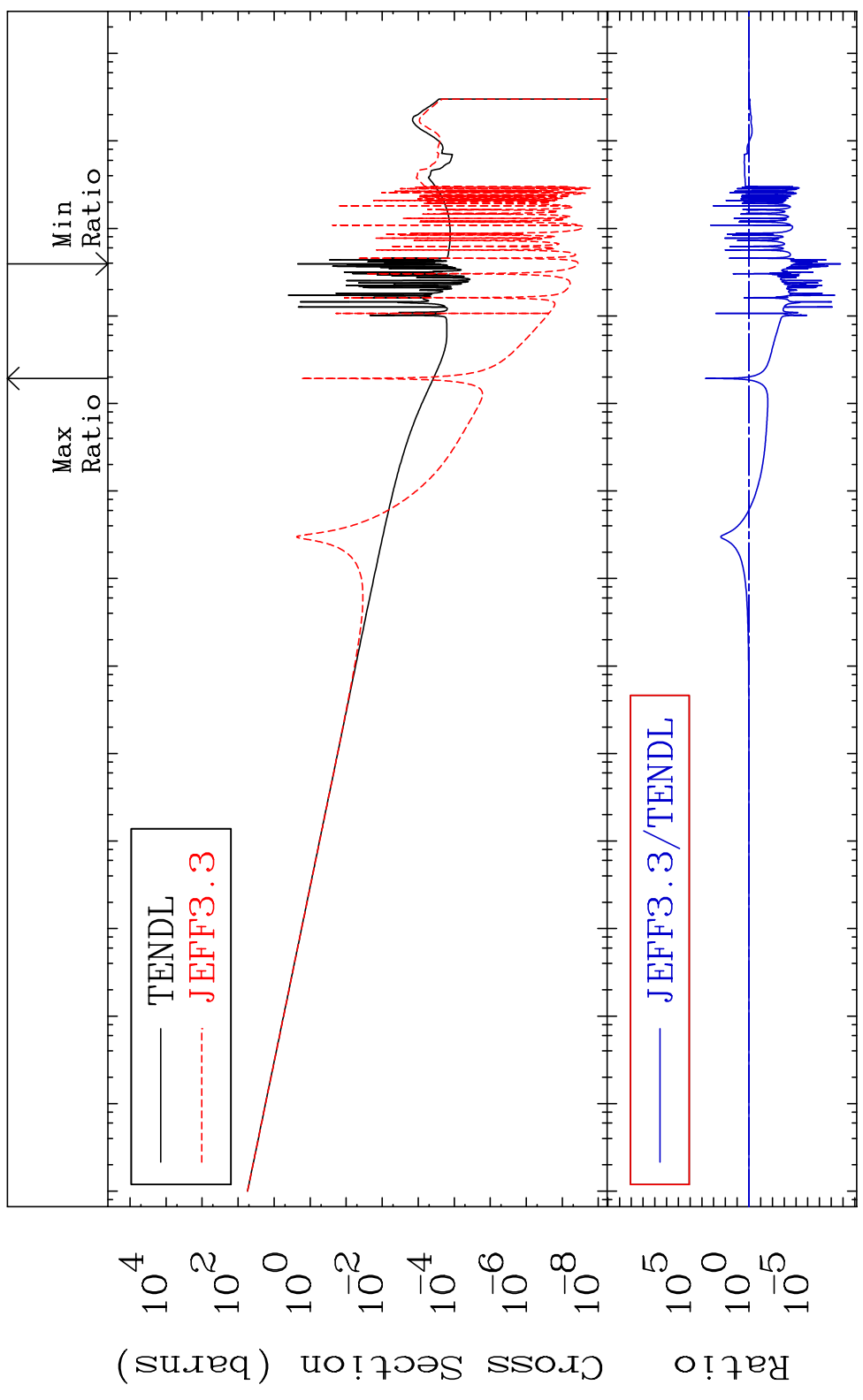


MAT 2049

(n, γ)

20-Ca-48

Cross Section -100.0 To 9999. %

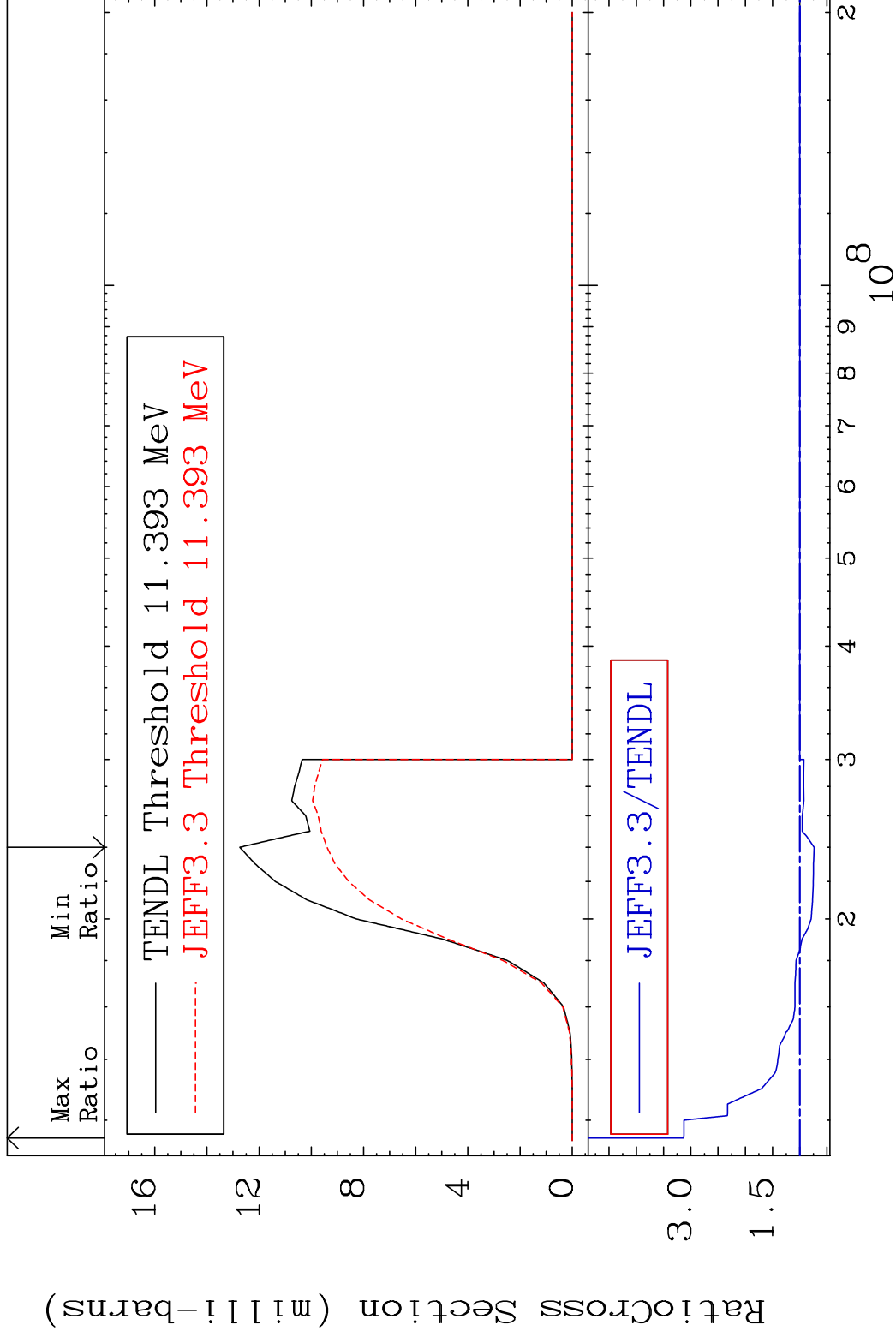


MAT 2049

(n, p)

20-Ca-48

Cross Section -26.24 To 213.1 %



45

Incident Energy (eV)

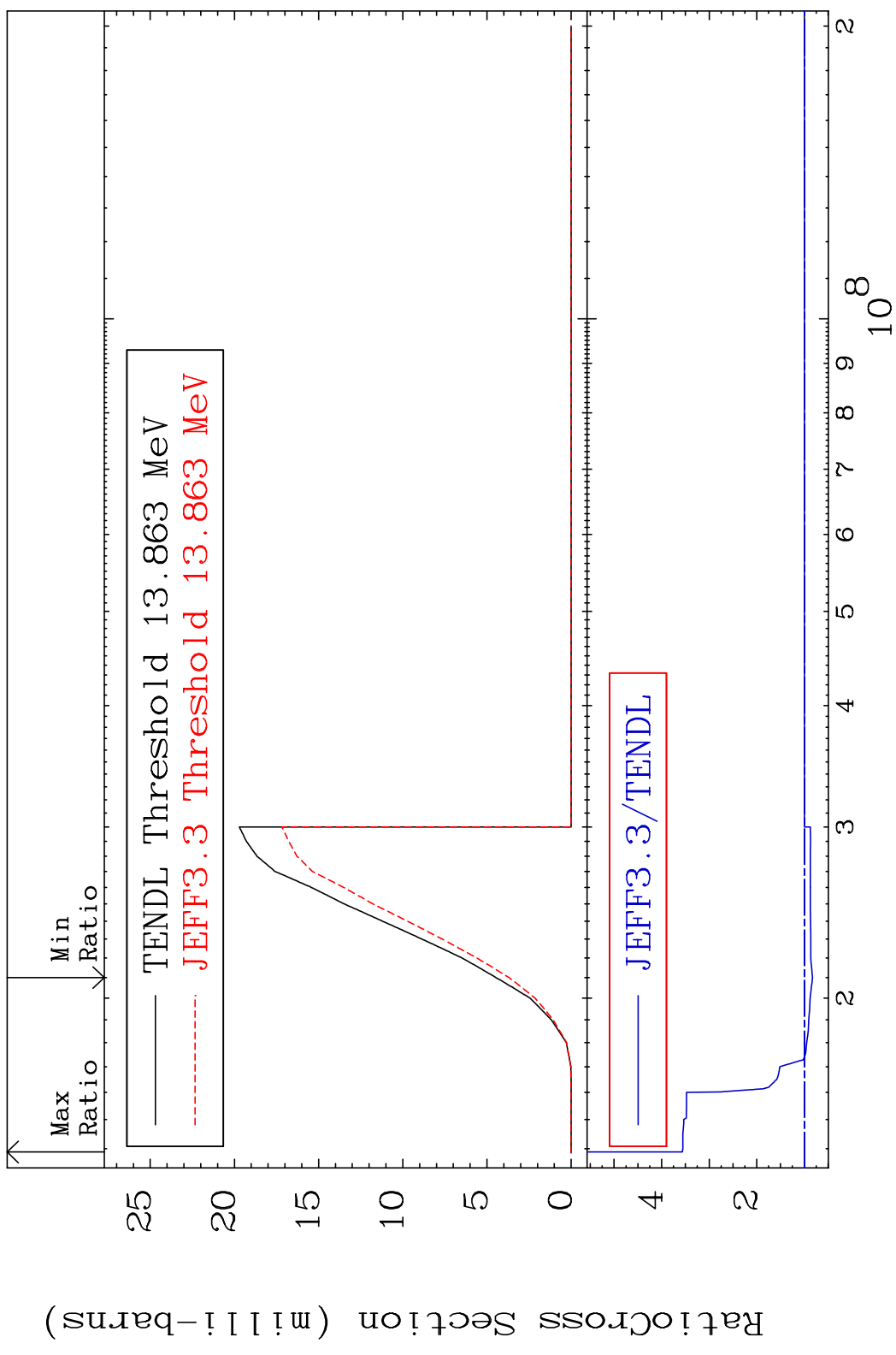
20-Ca-48

MAT 2049

(n, d)

20-Ca-48

Cross Section -17.35 To 256.4 %

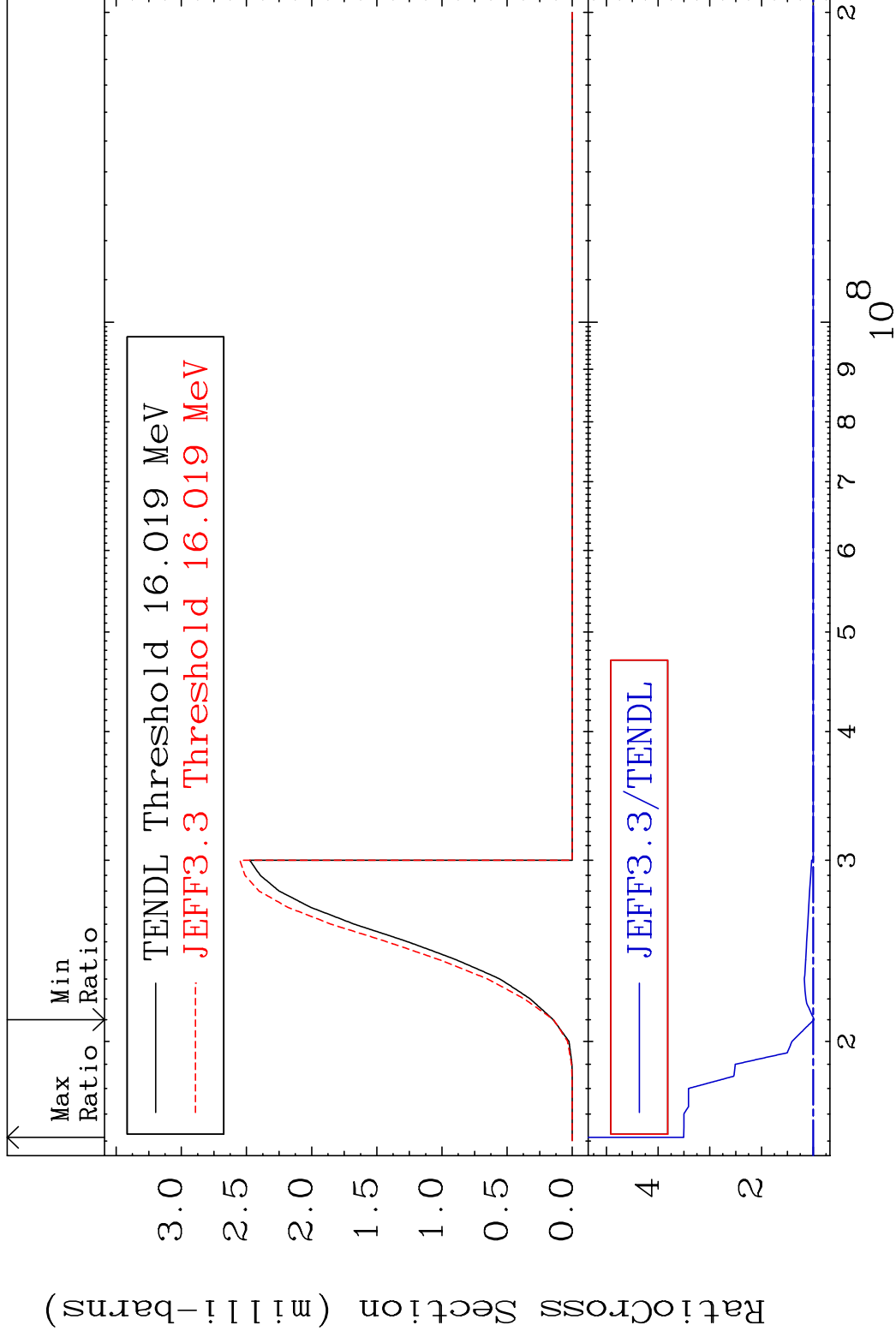


MAT 2049

(n, t)

20-Ca-48

Cross Section -1.752 To 250.7 %

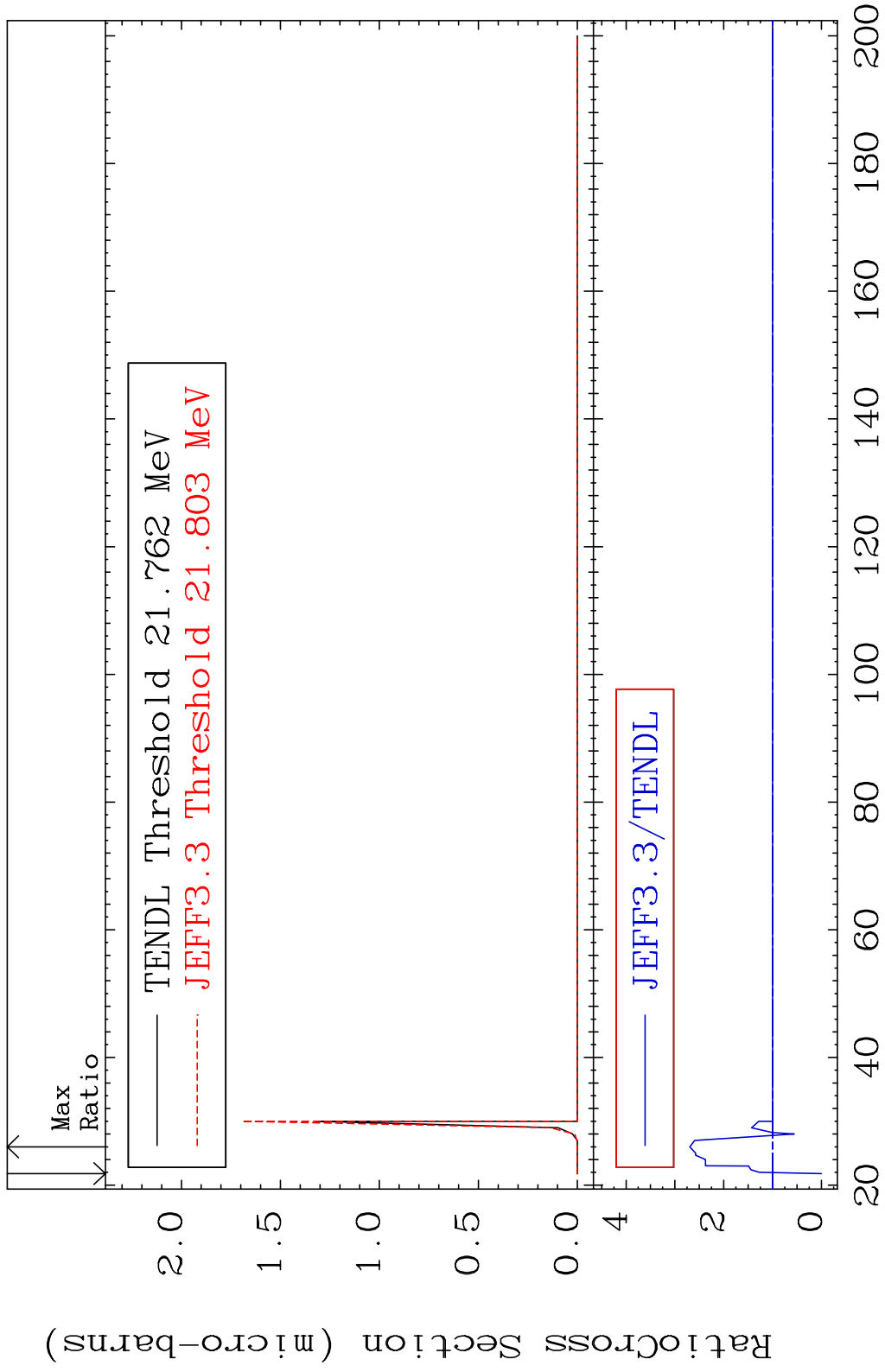


47

Incident Energy (eV)

20-Ca-48

MAT 2049 (n, He-3) 20-Ca-48
Cross Section -100.0 To 169.6 %



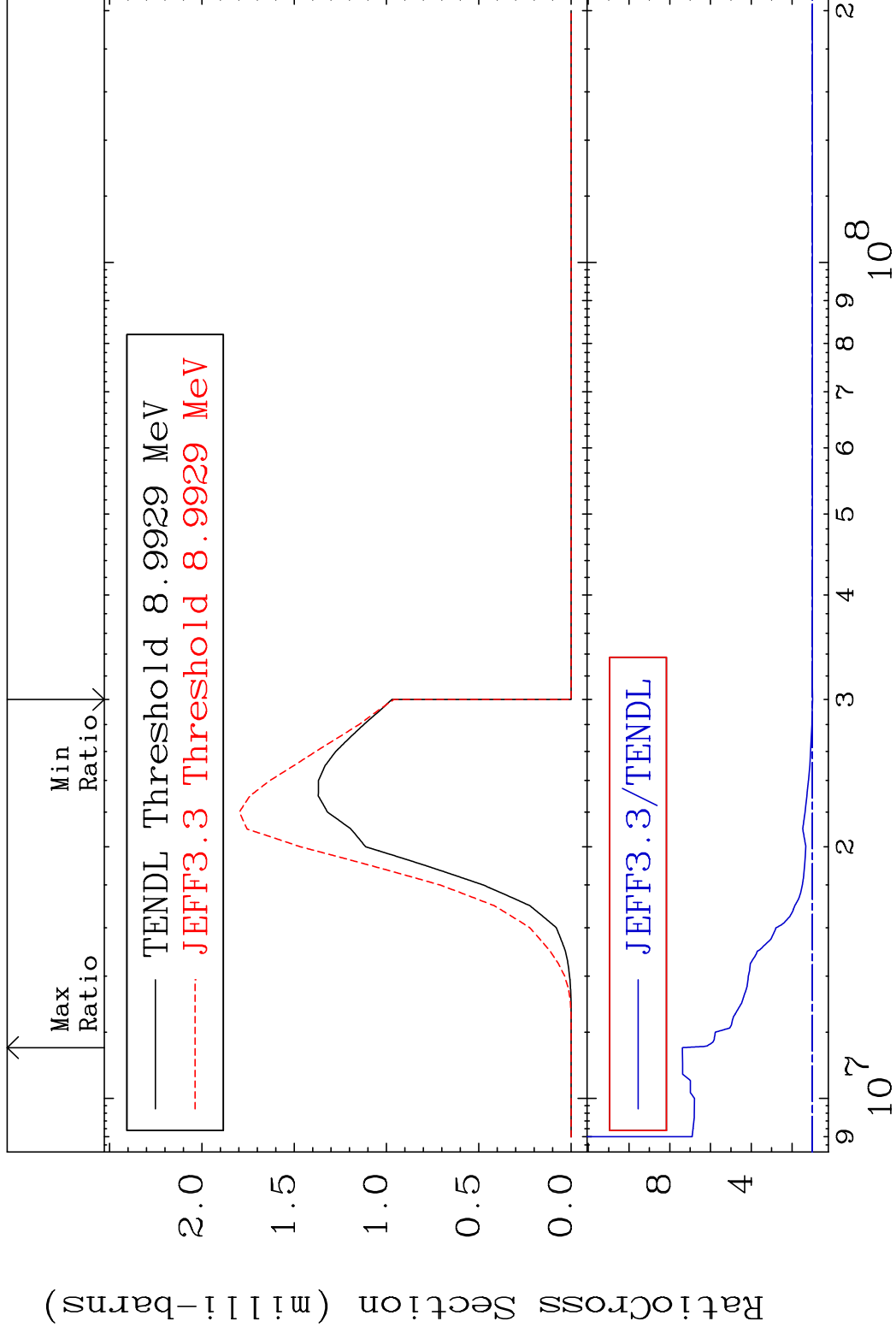
48 Incident Energy (MeV) 20-Ca-48

MAT 2049

(n, α)

20-Ca-48

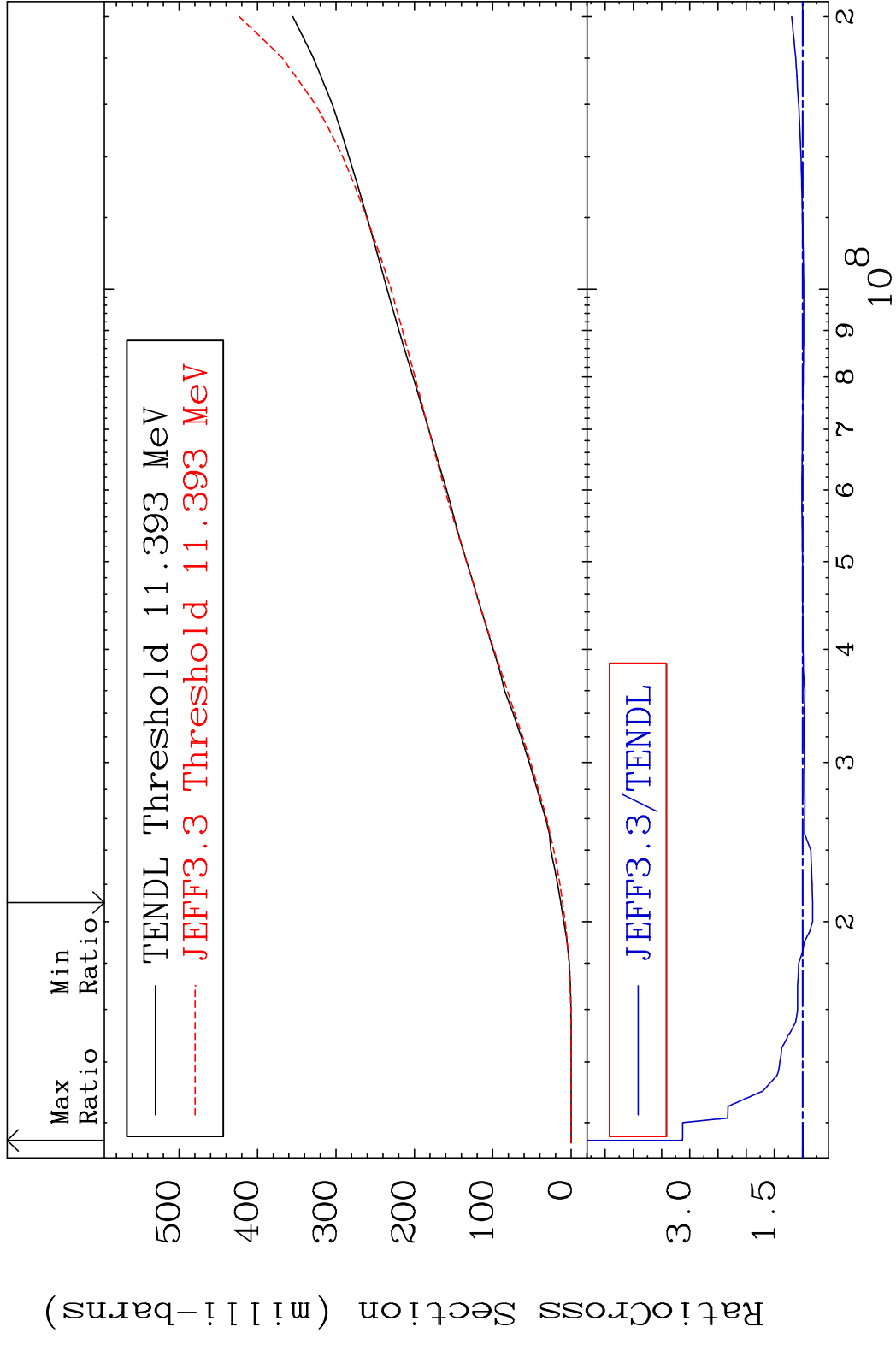
Cross Section -1.027 To 638.3 %

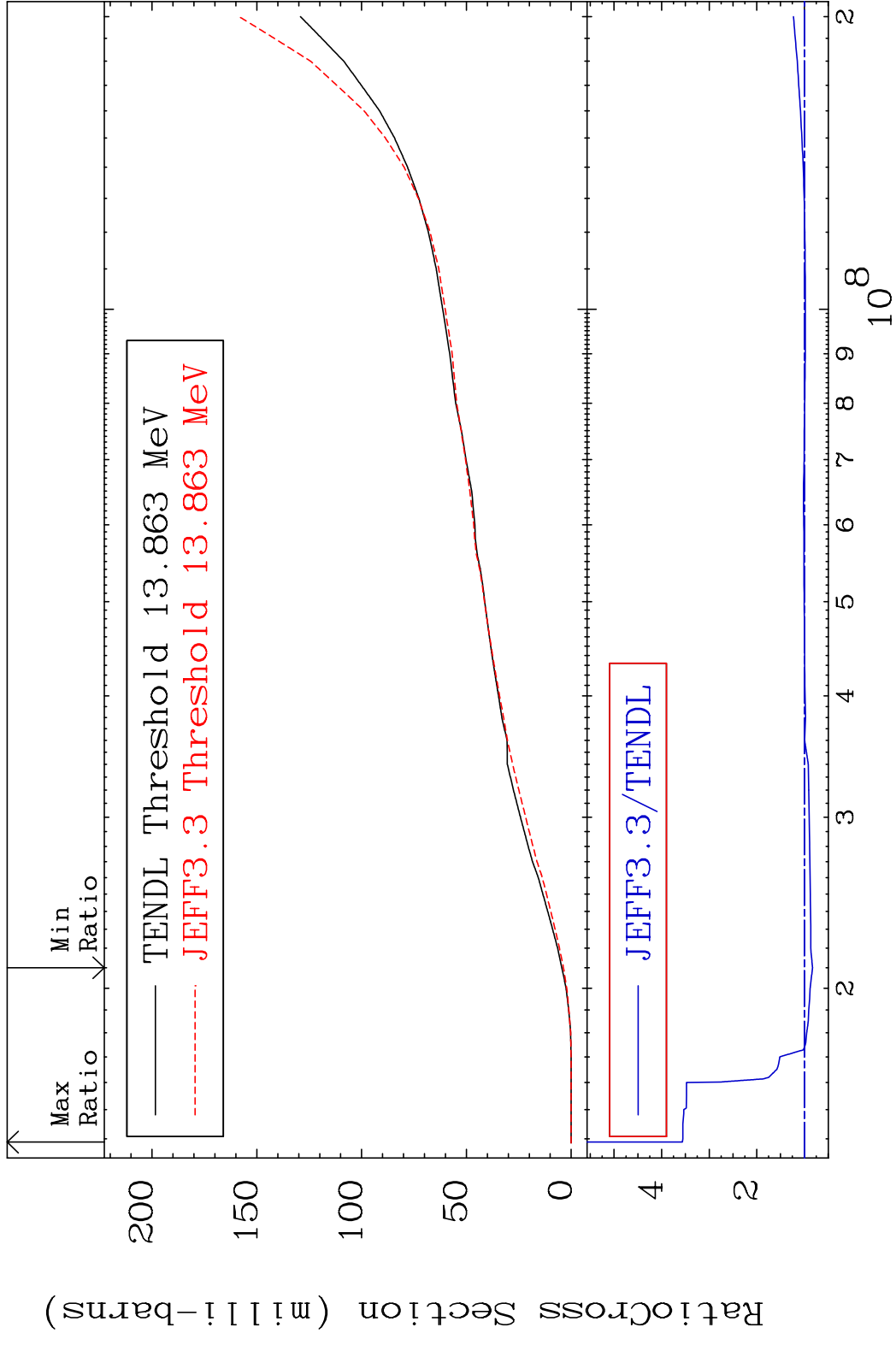


49

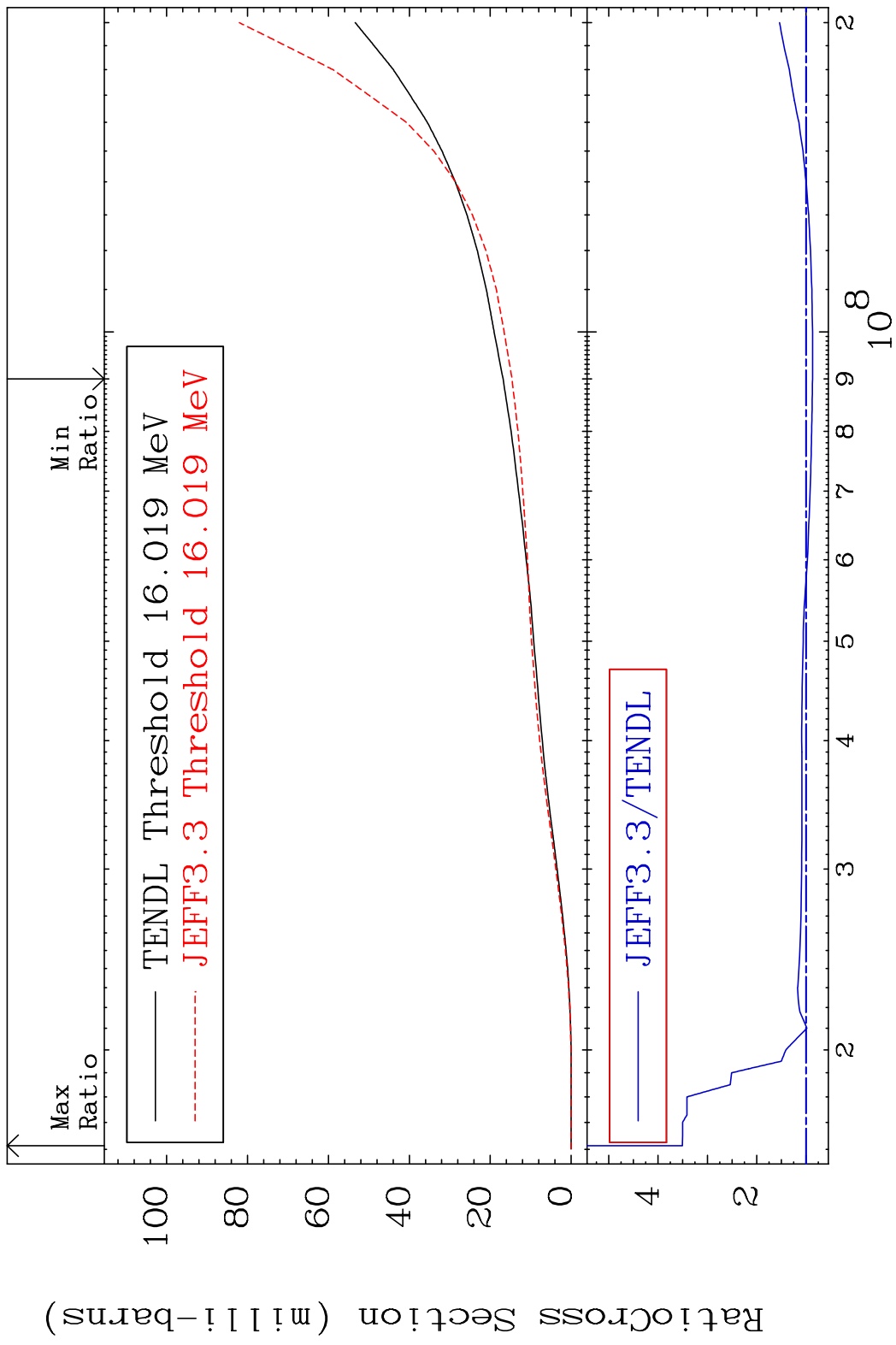
Incident Energy (eV)

20-Ca-48

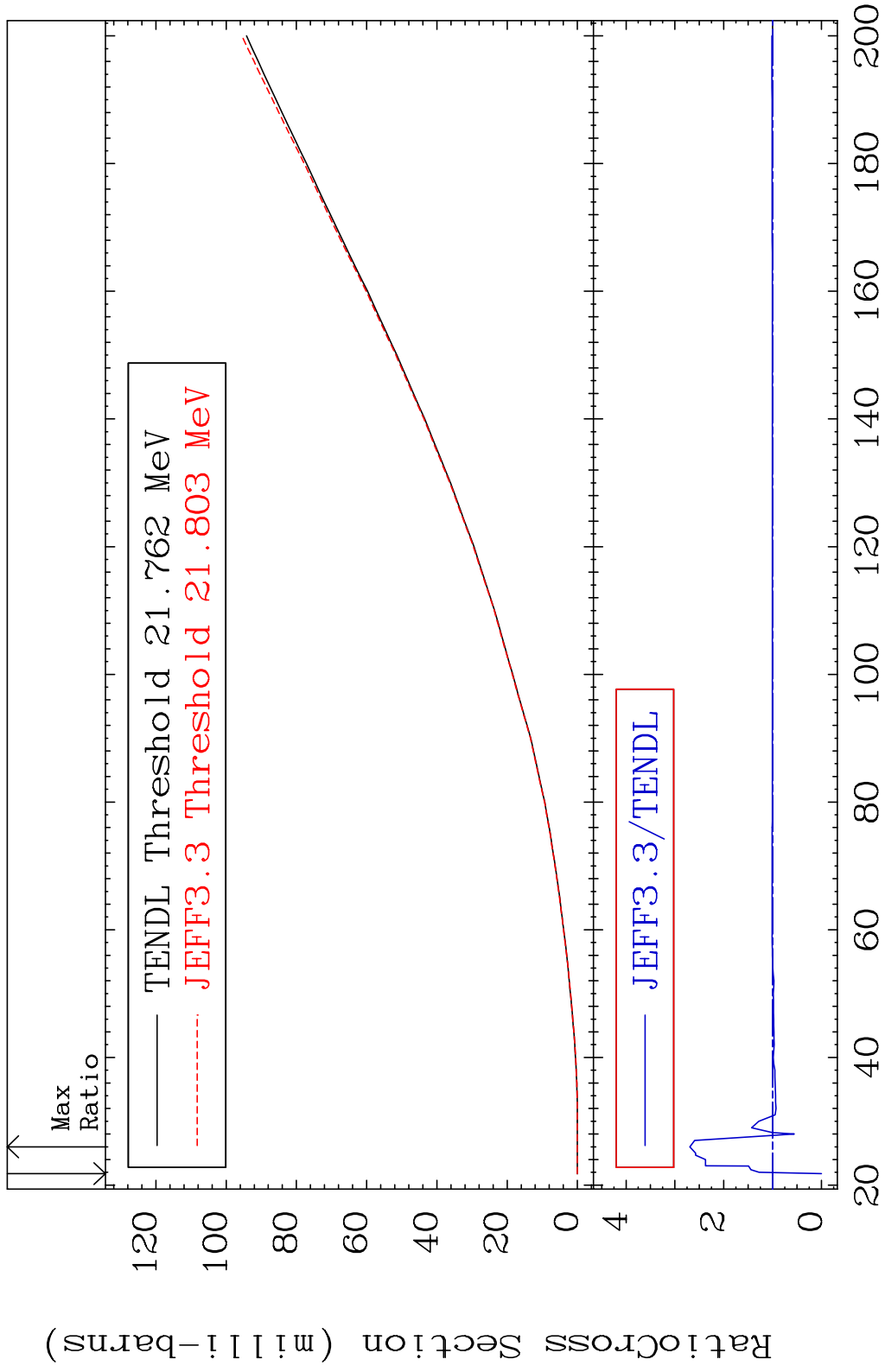




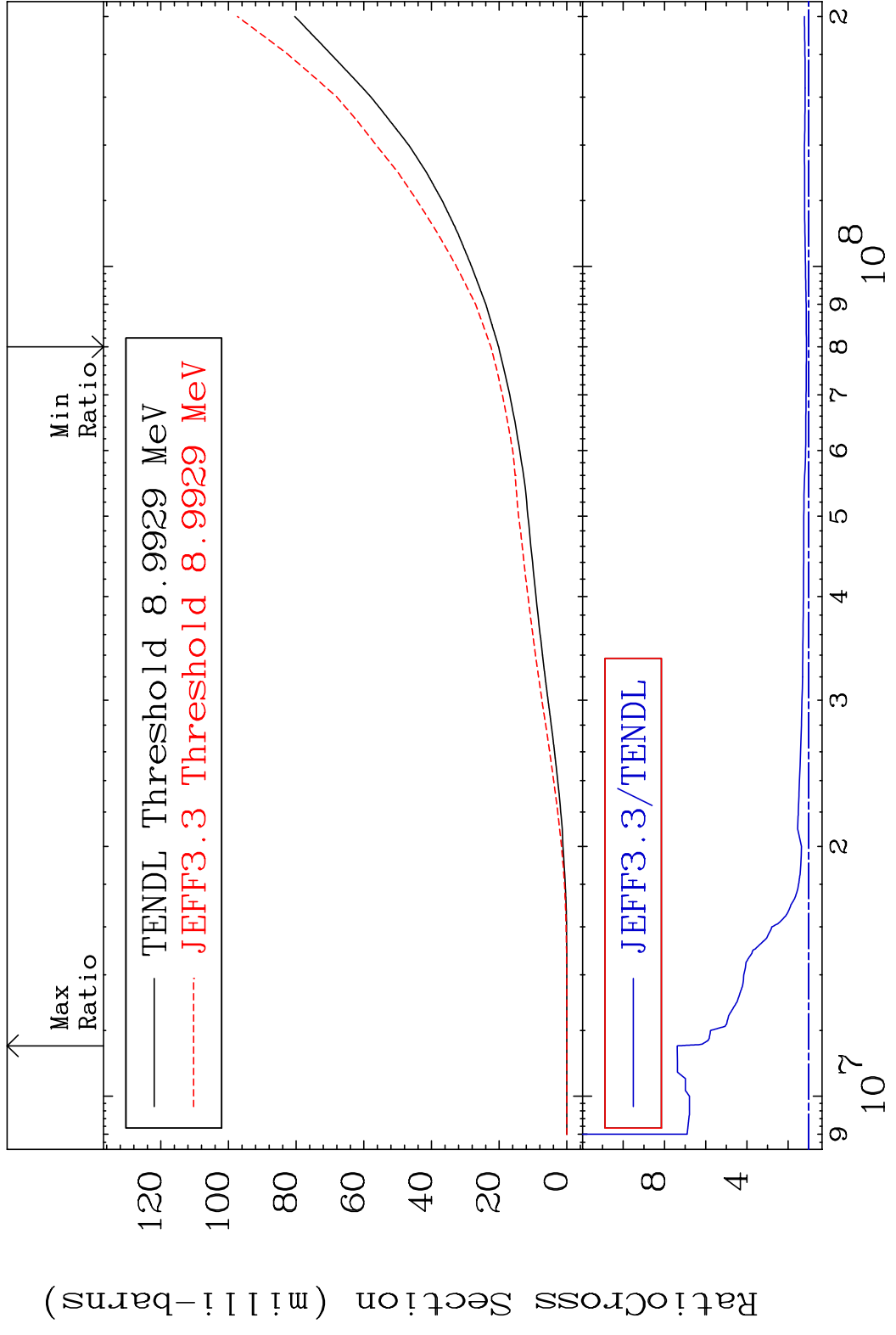
MAT 2049 Tritium Production 20-Ca-48
 Cross Section -13.18 To 250.7 %



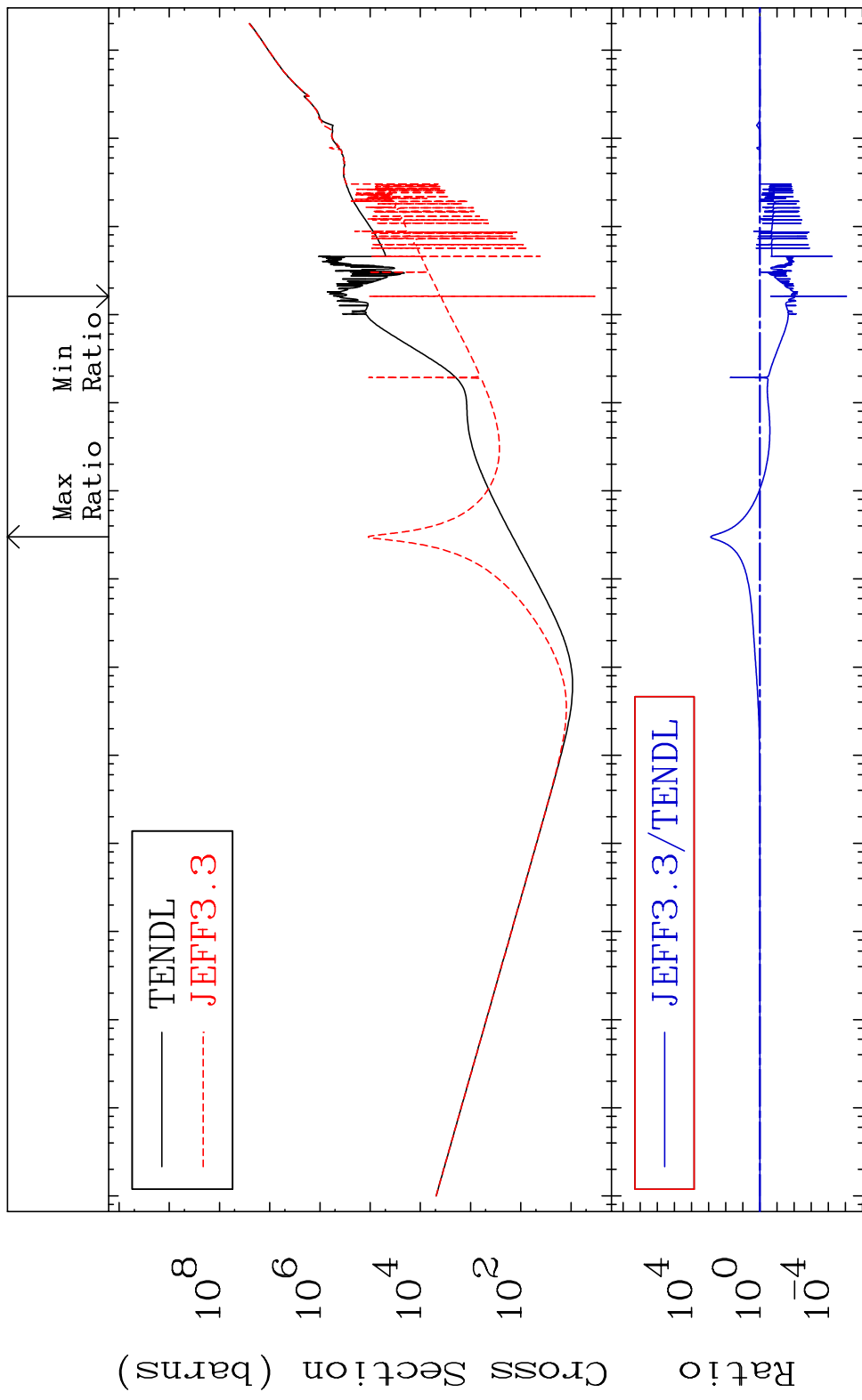
MAT 2049 He-3 Production 20-Ca-48
 Cross Section -100.0 To 169.6 %



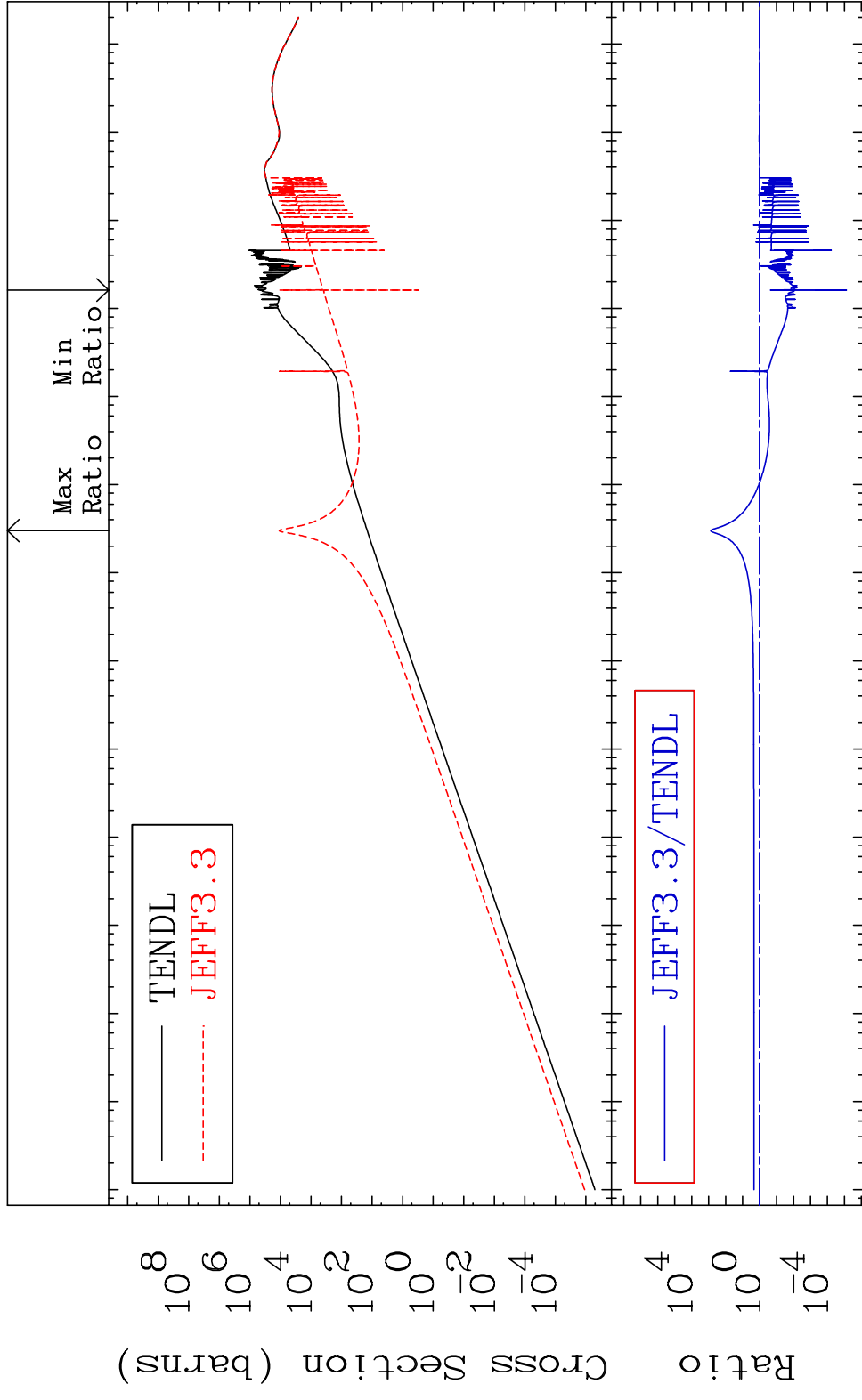
MAT 2049 He-4 Production 20-Ca-48
 Cross Section 11.31 To 638.3 %



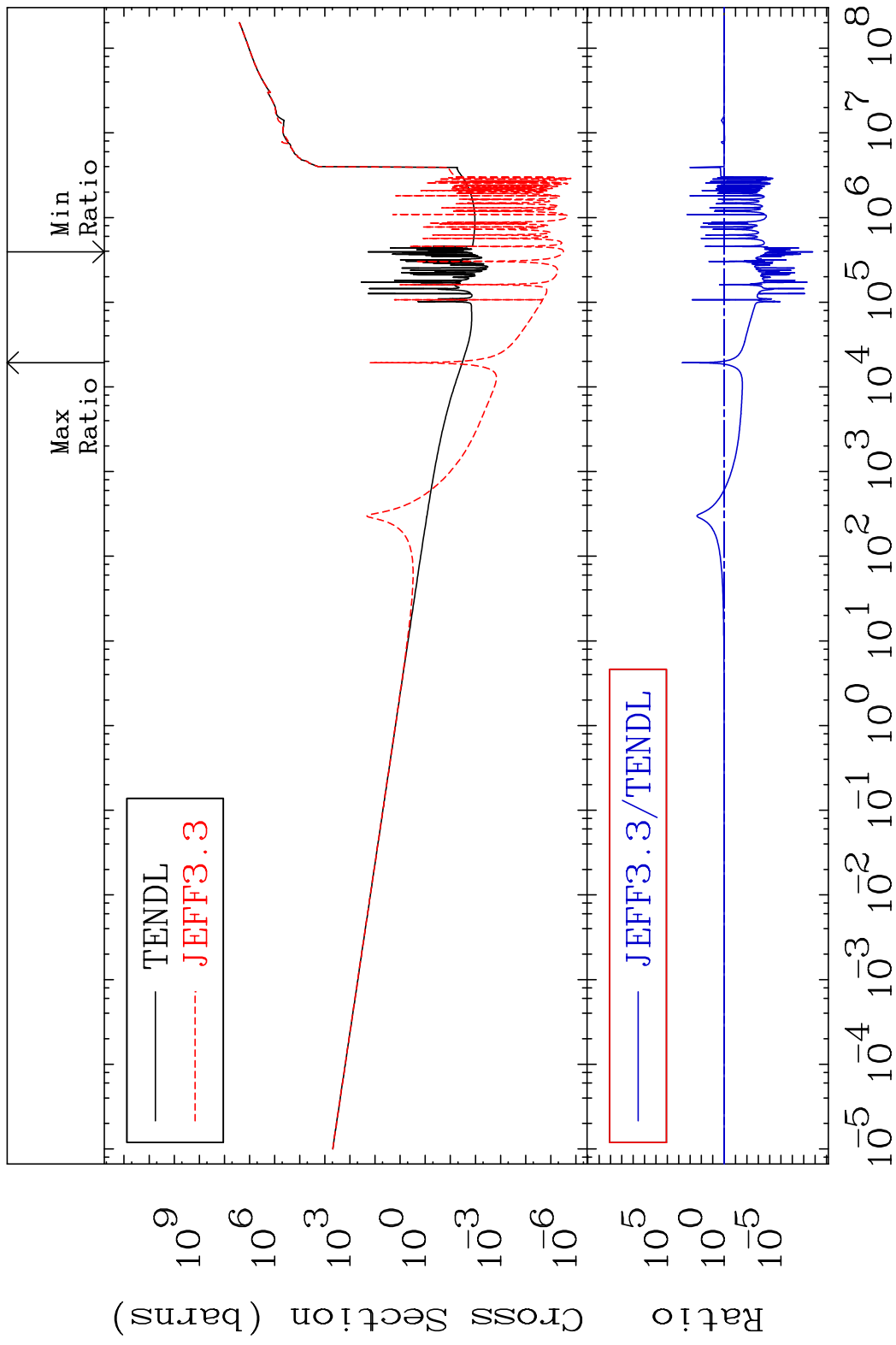
MAT 2049 Kerma total (eV-barns) 20-Ca-48
 Cross Section -100.0 To 9999. %



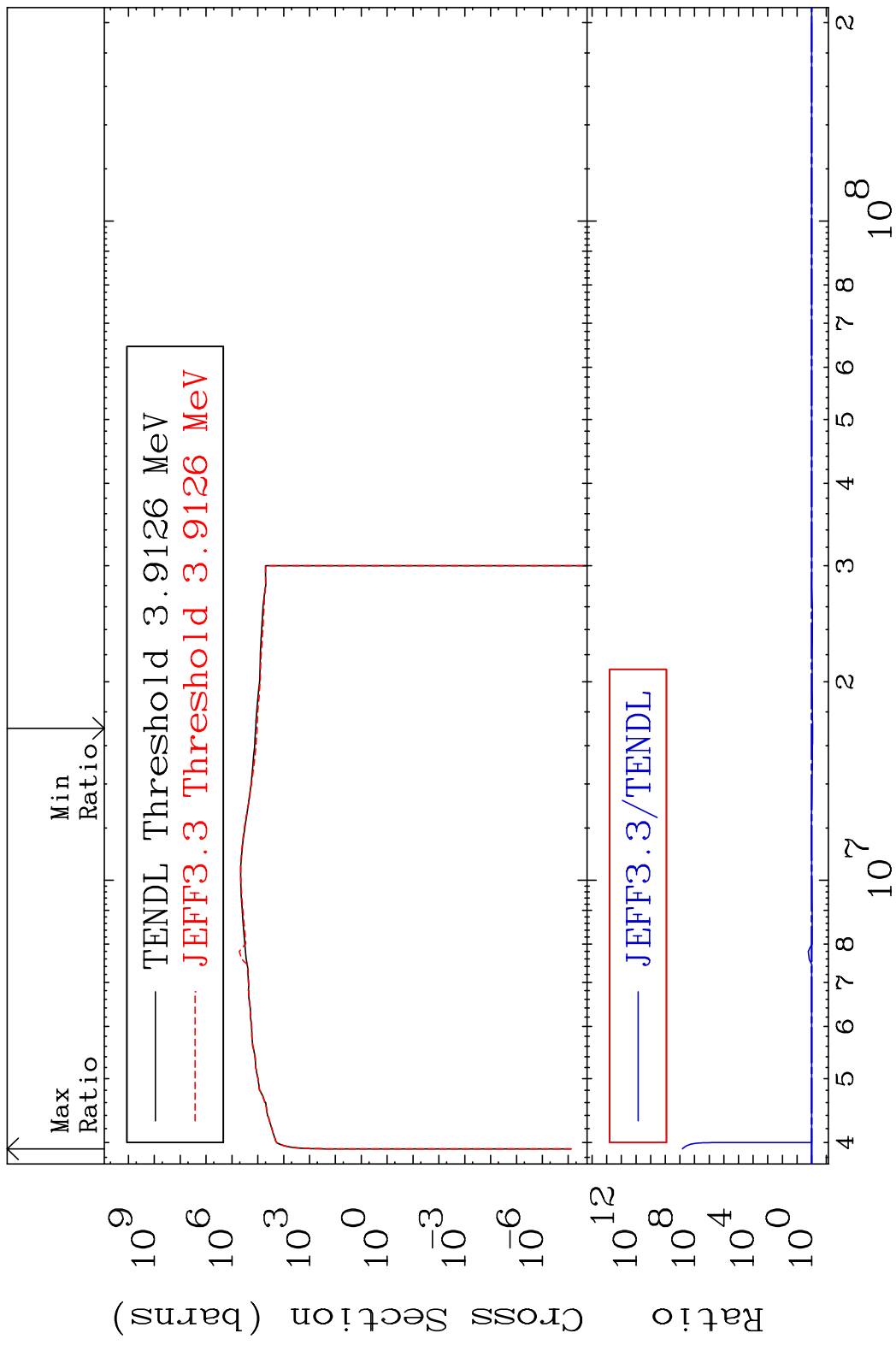
MAT 2049 Kerma elastic Cross Section -100.0 To 9999. % 20-Ca-48



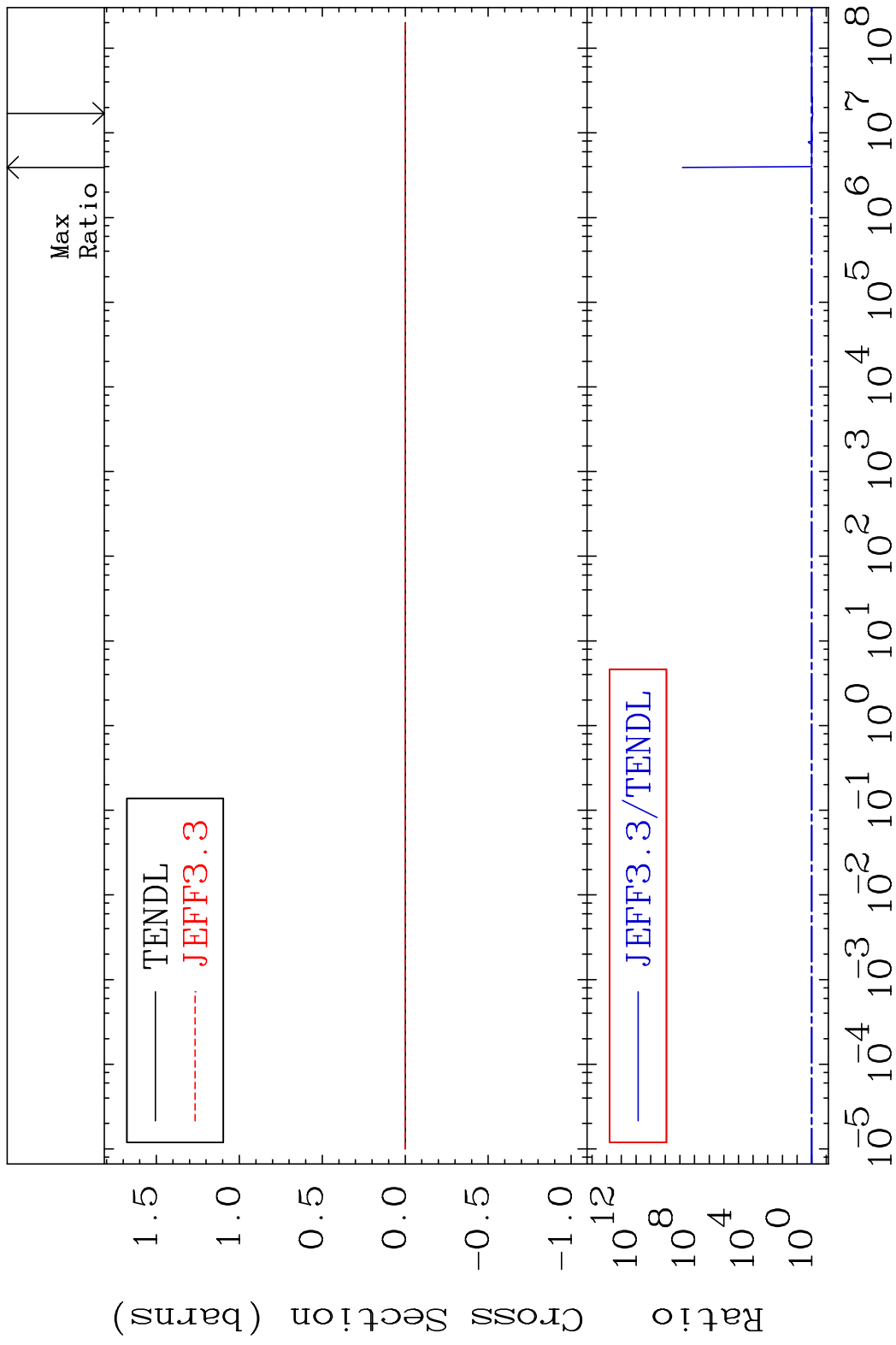
MAT 2049 Kerma non-elastic (all but mt2) 20-Ca-48
 Cross Section -100.0 To 9999. %



MAT 2049 Kerma inelastic (mt51-91) 20-Ca-48
 Cross Section -12.50 To 9999. %

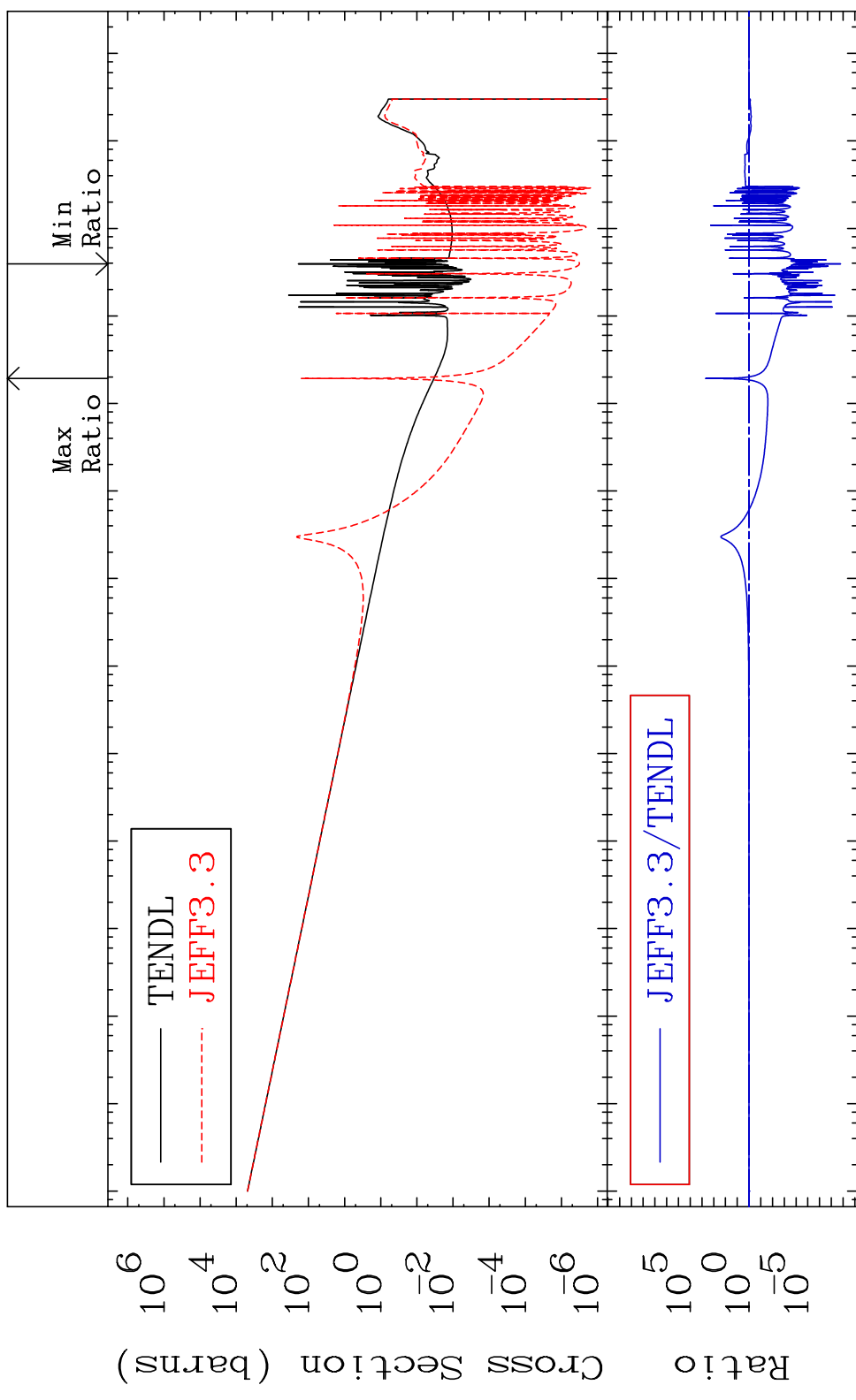


MAT 2049 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-48
 Cross Section -12.50 To 9999. %



MAT 2049

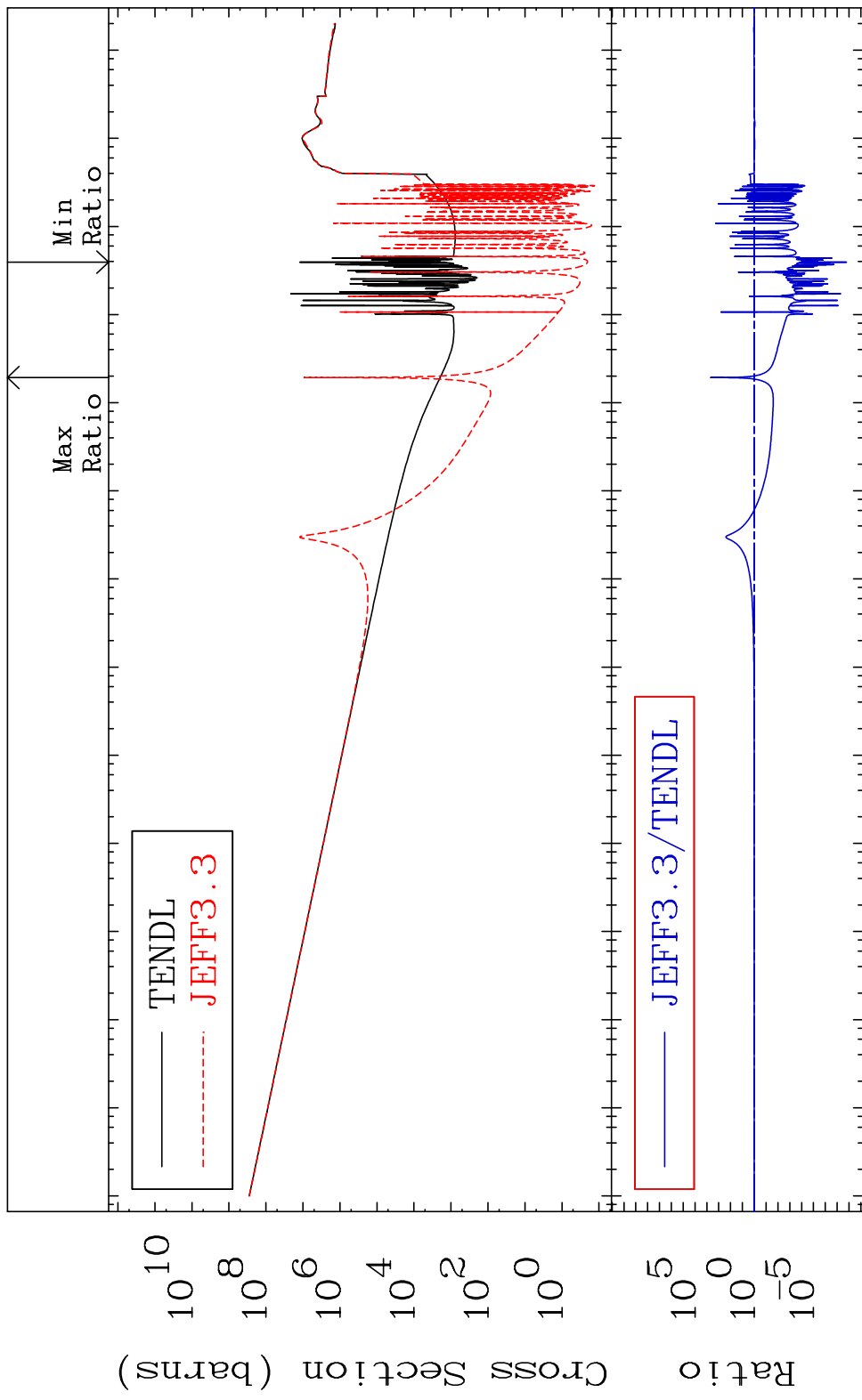
Kerma capture (mt102) 20-Ca-48
Cross Section -100.0 To 9999. %



60

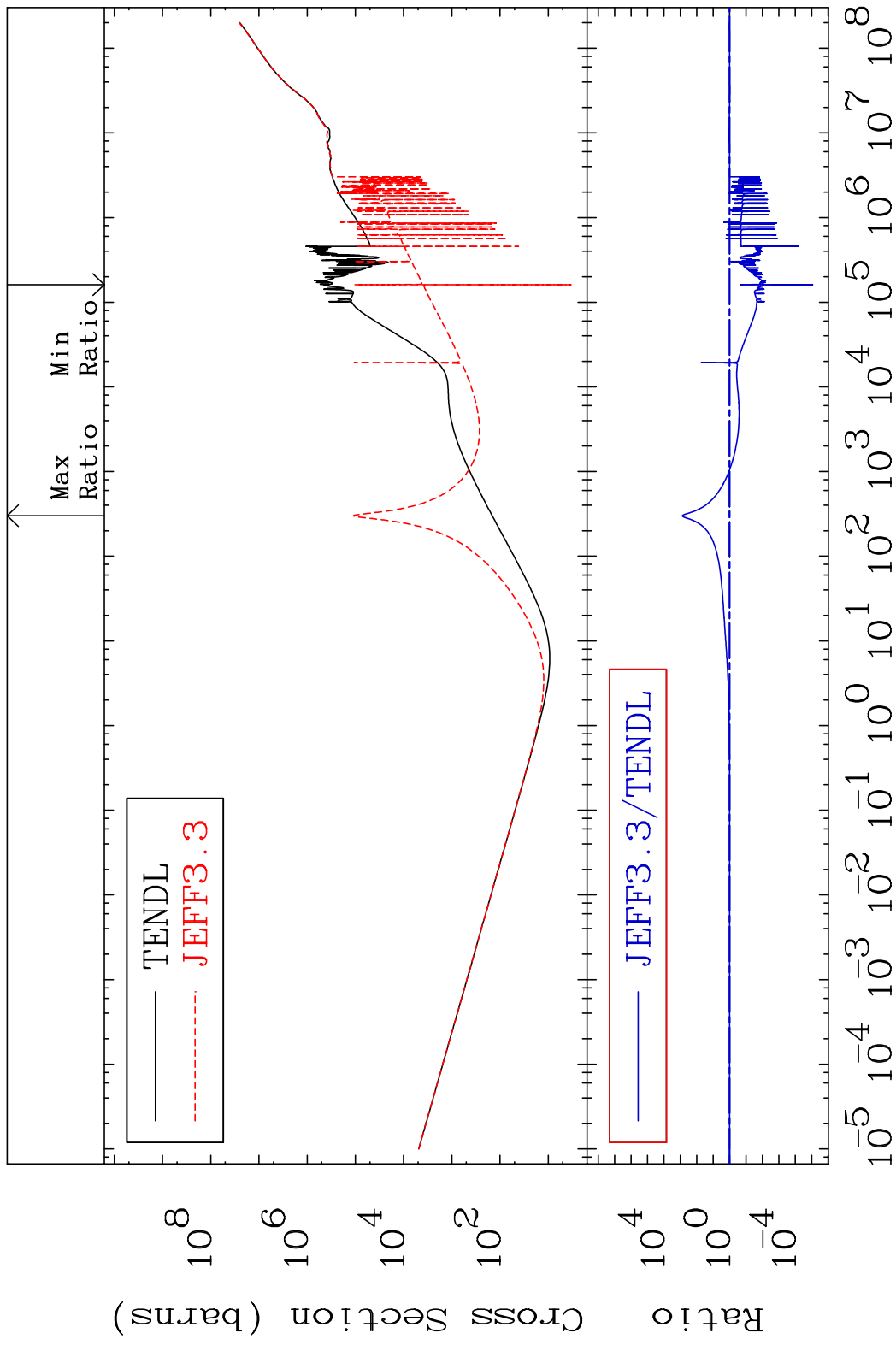
Incident Energy (eV) 20-Ca-48

MAT 2049 Total photon (eV-barns) 20-Ca-48
 Cross Section -100.0 To 9999. %



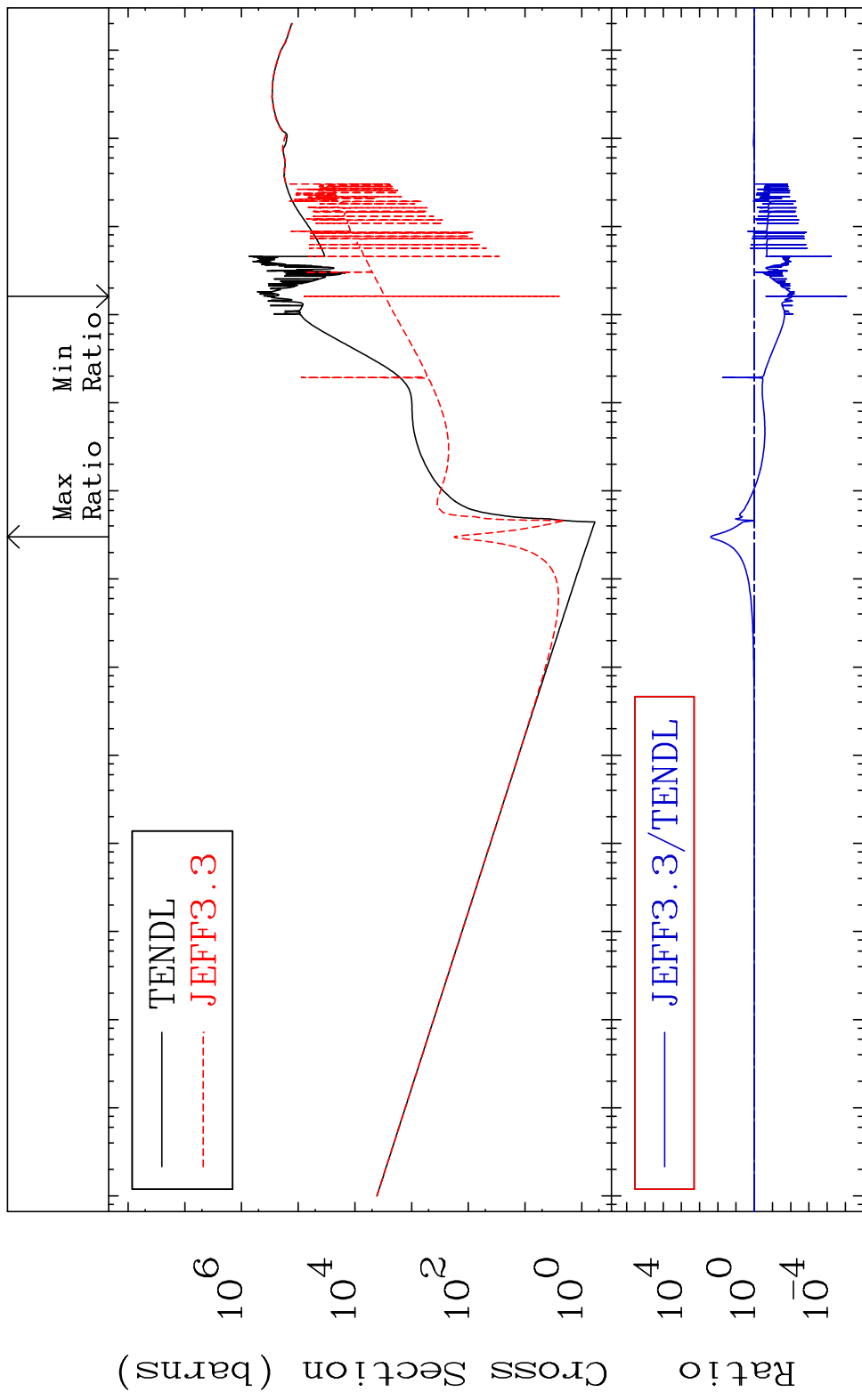
61 Incident Energy (eV) 20-Ca-48

MAT 2049 Total kinematic kerma (high limit) 20-Ca-48
 Cross Section -100.0 To 9999. %



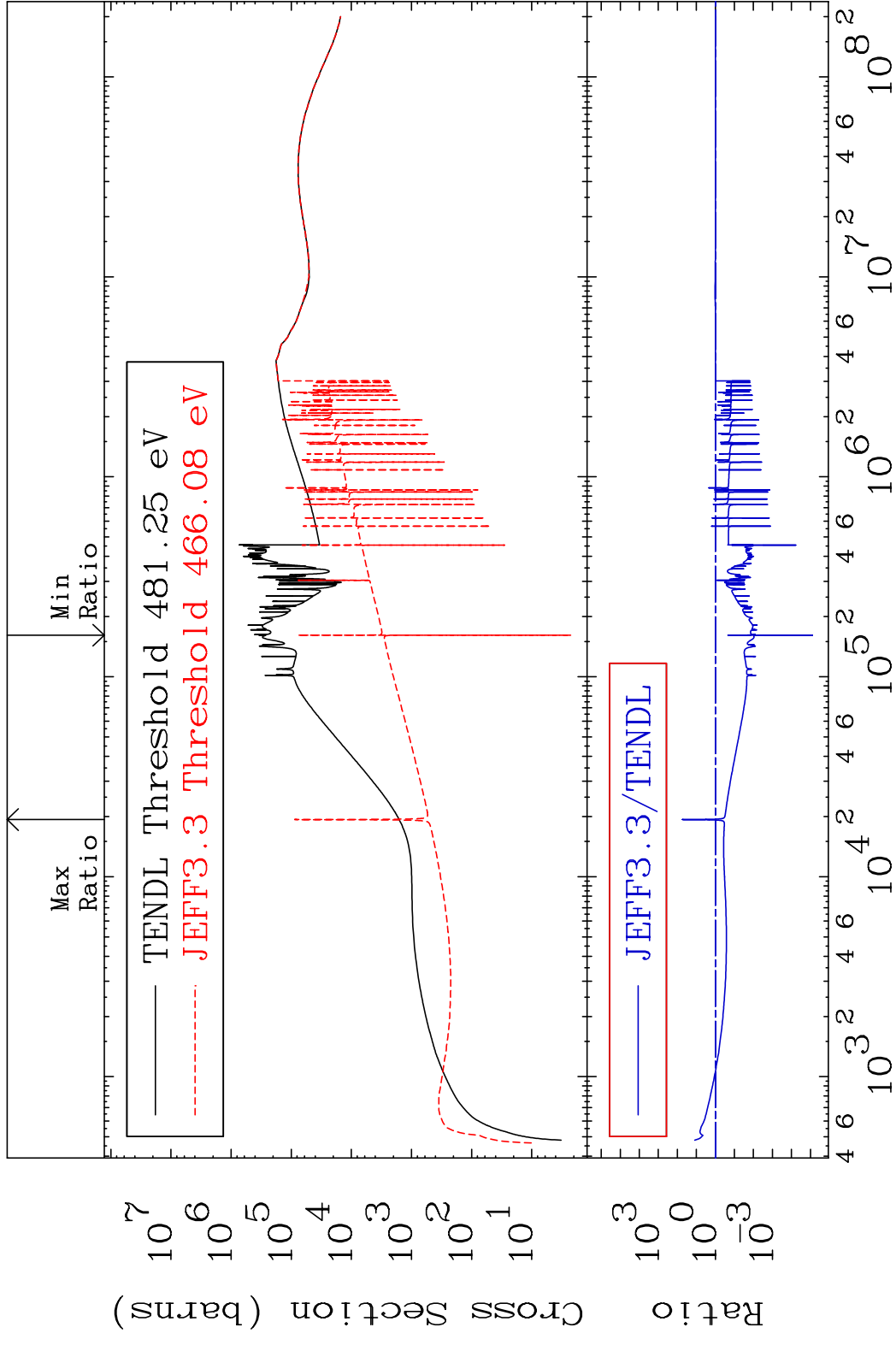
62 Incident Energy (eV) 20-Ca-48

MAT 2049 Dpa total (eV-barns) 20-Ca-48
 Cross Section -100.0 To 9999. %

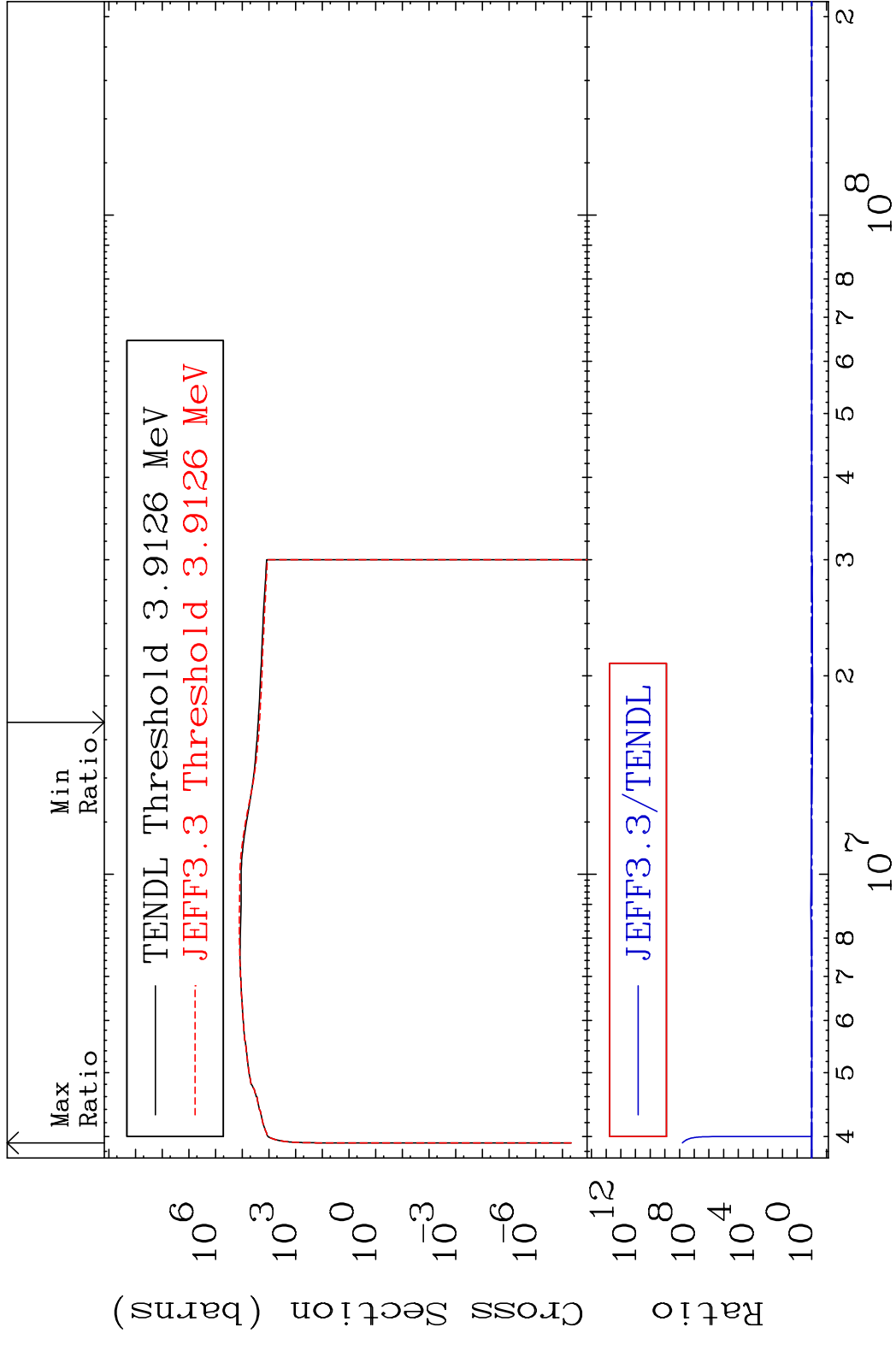


63 Incident Energy (eV) 20-Ca-48

MAT 2049 Dpa elastic (mt2) 20-Ca-48
 Cross Section -100.0 To 5340. %



MAT 2049 Dpa inelastic (mt51-91) 20-Ca-48
 Cross Section -11.58 To 9999. %



MAT 2049 Dpa disappearance (mt102 -120) 20-Ca-48
 Cross Section -100.0 To 9999. %

